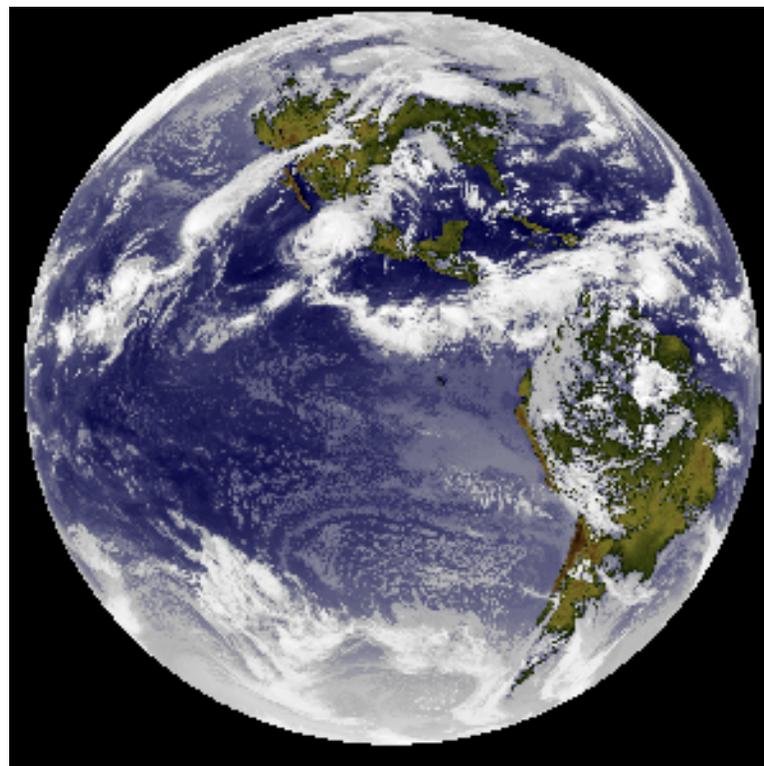


# **INTERNATIONAL PETROLEUM MONTHLY**

**August 2001**



**Energy Information Administration  
Energy Markets and Contingency Information Division**

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## Preface

The International Petroleum Monthly is a monthly publication that provides current international oil data. This report is published for the use of Members of Congress, Federal agencies, State agencies, industry, and the general public. Publication of this report is in keeping with responsibilities given the Energy Information Administration in Public Law 95-91 (Section 205(a)(2)) that states:

"The Administrator shall be responsible for carrying out a central, comprehensive, and unified energy data and information program which will collect, evaluate, assemble, analyze and disseminate data and information ..."

The International Petroleum Monthly presents data on international oil production, demand, imports, and stocks. The report has four sections. Section 1 contains time series data on world oil production, and on oil demand and stocks in the Organization for Economic Cooperation and Development (OECD). This section contains annual data beginning in 1990, and monthly data for the most recent two years. Section 2 presents an oil supply/demand balance for the world. This balance is presented in quarterly intervals for the most recent two years and annually for the three years prior to that. Section 3 presents data on oil imports by OECD countries. This section contains annual data for the most recent year, quarterly data for the most recent two quarters, and monthly data for the most recent twelve months. Section 4 presents annual time series data on world oil production and oil stocks, demand, and trade in OECD countries. World oil production and OECD demand data are for the years 1970 through 2000; OECD stocks from 1973 through 2000; and OECD trade from 1990 through 2000.

Data for the United States are developed by the Energy Information Administration's (EIA) Office of Oil and Gas. Data for other countries are derived largely from published sources, including International Energy Agency publications, the EIA International Energy Annual, and the trade press. (See sources after each section.) All data are reviewed by the International Energy Statistics Team of EIA. All data have been converted to units of measurement familiar to the American public. Definitions of oil production and consumption are consistent with other EIA publications.

General information about this publication may be obtained from W. Calvin Kilgore, Director, Office of Energy Markets and End Use, (202) 586-1617, and from Louis D. DeMouy, Director, Integrated Energy Statistics Division, (202) 586-8994. Detailed questions and comments concerning the contents of the International Petroleum Monthly may be directed to Patricia A. Smith (202) 586-6925, or H. Vicky McLaine (202) 586-9412; Oil Market Chronology - Lowell Feld (202) 586-9502.

## Energy Market Chronology - July 2001

*The following chronology lists international events that hold significance for world energy markets. Sources include: Associated Press (AP), Dow Jones Business News (DJ), The Los Angeles Times (LAT), The New York Times (NYT), The Oil Daily (OD), Reuters, The Washington Post (WP), and The Wall Street Journal (WSJ).*

**July 2** U.S. Secretary of the Interior Gale A. Norton states that the Bush Administration will seek to let oil companies drill on about 1.5 million acres of the Gulf of Mexico out of the 6 million originally under consideration. This removes acreage closest to the shores of Alabama and Florida. (NYT)

The United Nations (U.N.) Security Council, facing an almost certain Russian veto, agrees to postpone indefinitely a vote on the U.S.-led "smart sanctions" package for Iraq, despite support by the four other council members. Instead, it will extend, most likely through the end of the year, the program that allows Iraq to export oil and import food and other commodities under U.N. supervision. (WSJ)

**July 3** At a meeting of its oil ministers, the Organization of Petroleum Exporting Countries (OPEC) agrees to maintain current production quotas. Ministers indicate that, if Iraqi oil returns to the market, they may cut production in response to maintain their desired level of prices. (WP)

**July 5** Australia and East Timor sign an agreement to share royalties from oil and natural gas production in the Timor Sea, which separates the two countries. The deal supercedes the former agreement between Australia and Indonesia that divided royalties 50-50, with a new arrangement of 90 percent for East Timor and 10 percent for Australia. This agreement clears the way for \$7.25 billion in proposed energy projects for the area and further downstream projects for Australia. (WSJ)

**July 9** California State officials and power suppliers fail to reach agreement on disputed charges worth \$8.9 billion. Chief Judge of the Federal Energy Regulatory Commission Curtis L. Wagner Jr. states that California consumers were overcharged by as much as \$1 billion (going back to October 2000), but a group of energy companies offered refunds of \$716.1 million, adding that these refunds should be offset by amounts they are still owed for previous power deliveries. (WP)

**July 10** Amerada Hess agrees to acquire Triton Energy for \$2.7 billion in cash. Both companies' boards have approved the transaction. Triton Energy is an international exploration and production company with major oil and natural gas assets in West Africa and Latin America. Triton's total proved reserves are estimated at 293.5 million barrels of oil equivalent. Amerada Hess' total proved reserves are estimated at 1.1 billion barrels of oil equivalent. (DJ)

**July 11** The Federal Energy Regulatory Commission (FERC) orders a consolidation of U.S. power-grid assets in order to foster large, competitive markets in the Northeast and Southeast. This is part of the FERC's goal to promote the development of four regional transmission organizations (RTOs) to oversee the national power grid, including an 11-state RTO in the west, including California. (DJ)

Iraq resumes oil exports, ending a 5-week halt in protest of a U.S. and British-sponsored United Nations (U.N.) Security Council resolution that would have overhauled U.N. sanctions, after this resolution did not come to a vote (see July 2). The oil-for-food program will be extended for five months. (NYT)

**July 12** The Russian government approves a plan to break up the state electricity monopoly RAO Unified Energy Systems (UES) into transmission and power-generating units, and to sell off some operations. Under the plan, UES' coast-to-coast transmission lines will be spun off into a separate company; the state will still own 52 percent of UES. (WSJ)

A bomb attack shuts down pumping at Colombia's Cano Limon Pipeline, the country's second-largest crude oil export pipeline, just 19 hours after it had been returned to service after an earlier bombing. The 485-mile pipeline, which can transport 120,000 barrels per day to the port of Covenas, has been bombed over 100 times in 2001. In the previous week, the 110,000-barrel-per-day Colombia Pipeline was also bombed, shutting down production there. For the year-to-date, Colombia's oil exports have fallen 28.7 percent compared to the previous year. (OD, DJ)

- July 16** A 13-member panel appointed by the U.S. National Academy of Sciences recommends, in a draft report, that the federal government require automakers to improve the mileage of new vehicles. President Bush has said that the panel's findings will help him decide whether and how much to increase fuel economy standards. (NYT)
- BP agrees to buy a 51 percent stake in German energy conglomerate E.On's Veba Oel petroleum station and oil unit in a deal valuing the business at about \$5.56 billion. BP has the option to acquire the remaining 49 percent. The deal would make BP the market leader in retail fuel sales in Germany. (DJ)
- July 17** The U.S. National Academy of Sciences releases a study of 39 research and development programs in energy efficiency and fossil fuel technology funded by the Department of Energy since 1978. The study determines that the programs yielded an economic return of \$40 billion from a \$13 billion investment. (LAT)
- July 18** Crude oil futures fall to their lowest levels in 14 months after data from the Energy Information Administration and the American Petroleum Institute show a larger-than-expected build in crude oil stocks. Crude oil for August delivery falls 68 cents per barrel to \$24.89 on the New York Mercantile Exchange (NYMEX). (DJ)
- July 23** Following days of intense negotiations at the CoP-6 meeting in Bonn, an agreement is reached by 178 countries that would require industrialized countries to cut emissions of gases linked to global warming. The final product is a modified version of the Kyoto Protocol. The United States declines to participate in the agreement. (NYT)
- Endesa, Spain's largest power company, agrees to buy Eletrogen of Italy for \$3.2 billion, making Endesa the third-largest electricity generator in Italy. (NYT)
- July 24** Mexican Energy Minister Ernesto Martens declares that maintenance work will reduce Mexico's crude oil exports by about 70,000 barrels per day for the next four months, meaning that no further Mexican production cuts will be needed to provide cooperation with expected Organization of Petroleum Exporting Countries (OPEC) production quota cuts. On July 9, Mexico had declared *force majeure* on export of Maya, its main export crude oil, until November due to maintenance on its oil and gas pipelines. (Reuters, OD)
- An Iranian warship in the Caspian Sea threatens a BP oil exploration ship off the coast of Azerbaijan. This prompts BP to suspend exploration in the area. The two vessels were in the Araz-Alov-Sharg field 90 miles southeast of Baku. Iran claims the field is in Iranian waters. Caspian Sea region countries have been unable to agree on a division of the Sea. (NYT)
- July 25** Faced with declining oil prices, ministers of the Organization of Petroleum Exporting Countries (OPEC) agree to cut crude oil production quotas by about 4 percent, or one million barrels per day. The cut will take effect September 1, and is aimed at maintaining the price of the OPEC basket of crude oils at around \$25 per barrel. Crude oil futures for September delivery climbed 47 cents per barrel, to \$26.78, on the New York Mercantile Exchange (NYMEX) after the announcement. (DJ)
- July 26** U.S. Environmental Protection Agency (EPA) Administrator Christie Whitman proposes significant changes in the regulation of power plant pollution. Five specific programs would be replaced with a single, flexible approach that includes expanded pollution credit trading. (LAT)
- Former Indonesian President Abdurrahman Wahid leaves the presidential palace and the country, ending a 2-day standoff and clearing the way for his successor, Megawati Sukarnoputri, the former vice-president, to take over. The National Assembly had voted on July 23 to remove Wahid from office and install Sukarnoputri in the presidency. (AP)
- July 30** The flow of natural gas from Iran to Turkey through the Tabriz-Ankara pipeline, completed on July 26, is delayed. Turkey states that its state gas company, Botas, wants to conduct additional tests on the pipeline. The National Iranian Gas Company claims that the delays are a tactic by Turkey to avoid paying compensation to Iran for not being technically prepared on the agreed start-date for exports. Under the 23-year deal signed in 1996, Iran was to have begun exporting 106-billion cubic feet per day, increasing to 353-billion cubic feet per day from 2007 onward. (AP)
- Energy authorities from Colombia and Ecuador sign an agreement in Quito to build a \$50 million, 230-kilovolt interconnection to allow the countries to share electric power. The interconnection will link the substation of Jamondino in Pasto, Colombia with the Pomasqui substation in Quito. Ecuador will likely be a net importer from Colombia

because of overcapacity in Colombia. (DJ)

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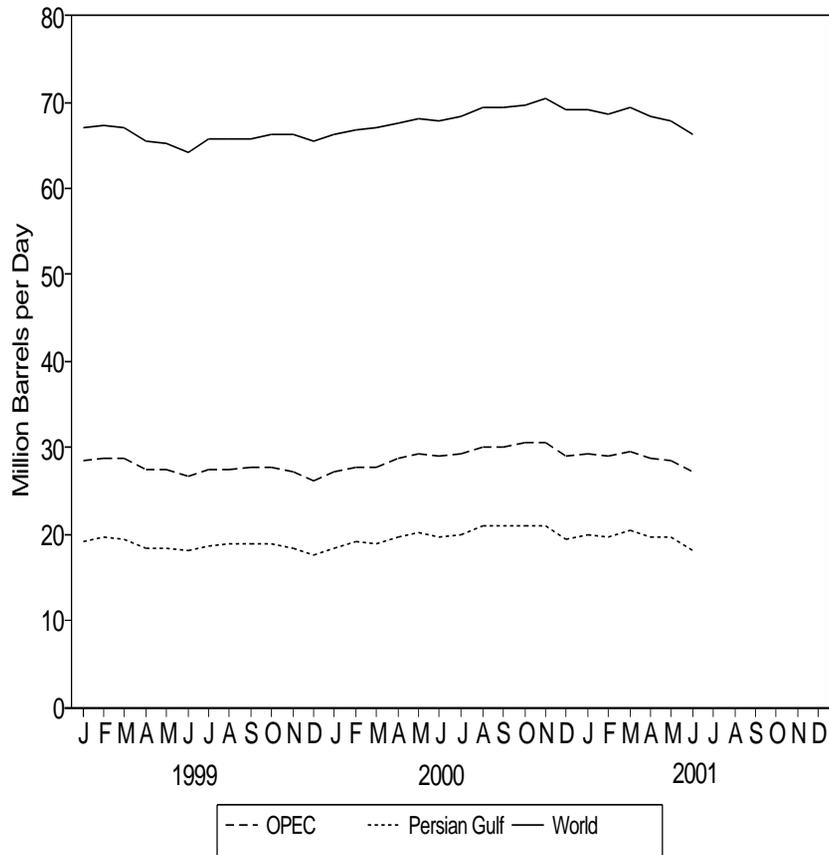
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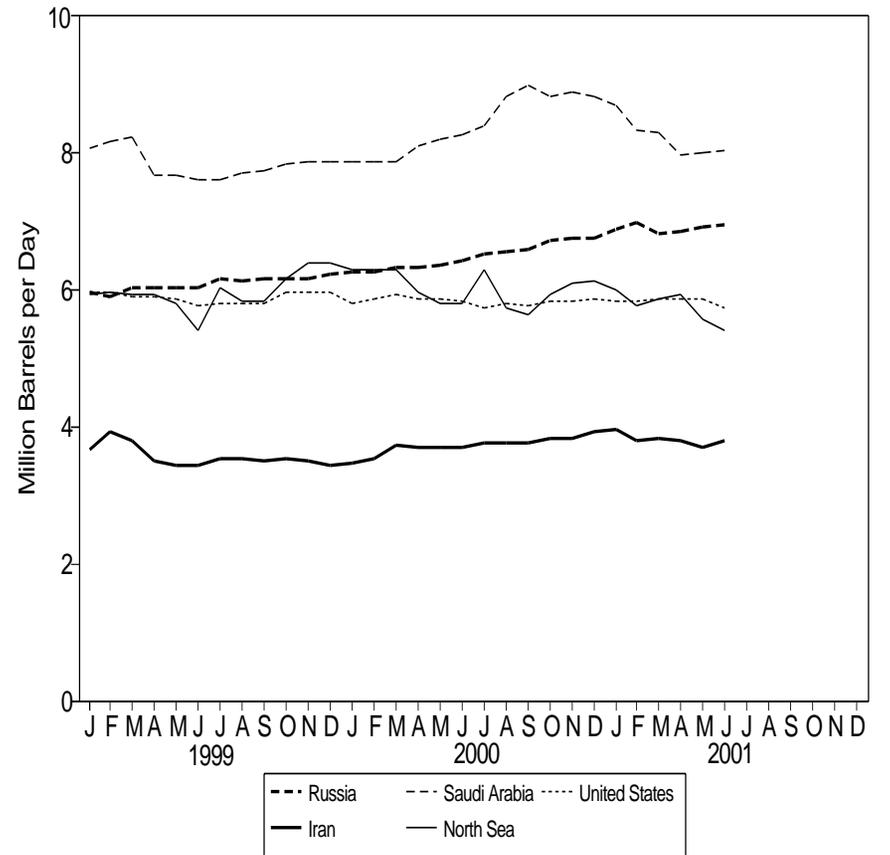
## **1. Annual and Monthly Oil Data**

Figure 1. World Crude Oil Production, Monthly



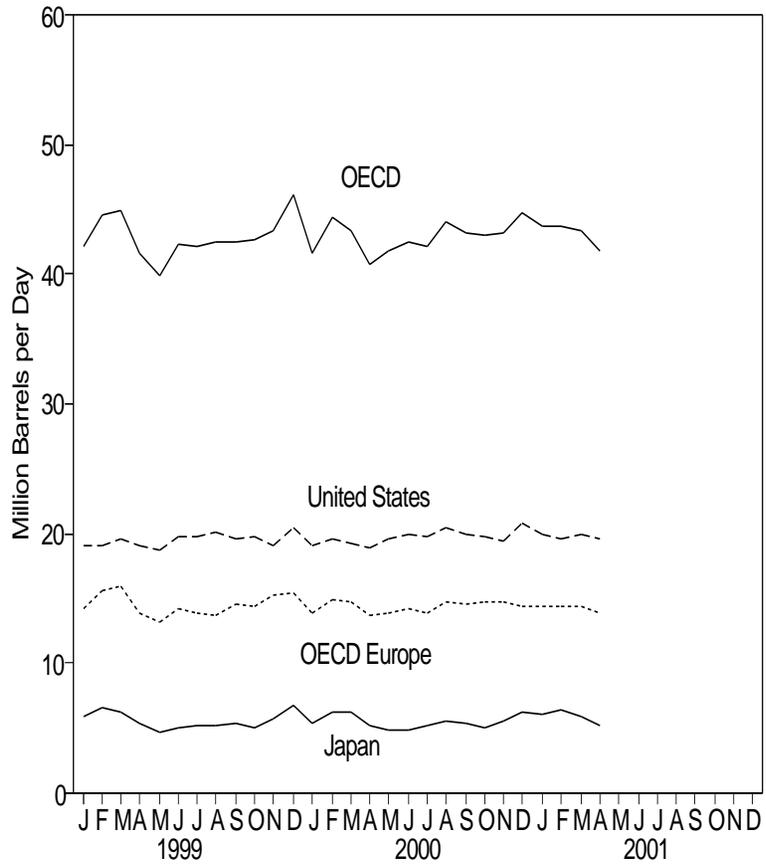
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Figure 2. Leading Crude Oil Producers, Monthly



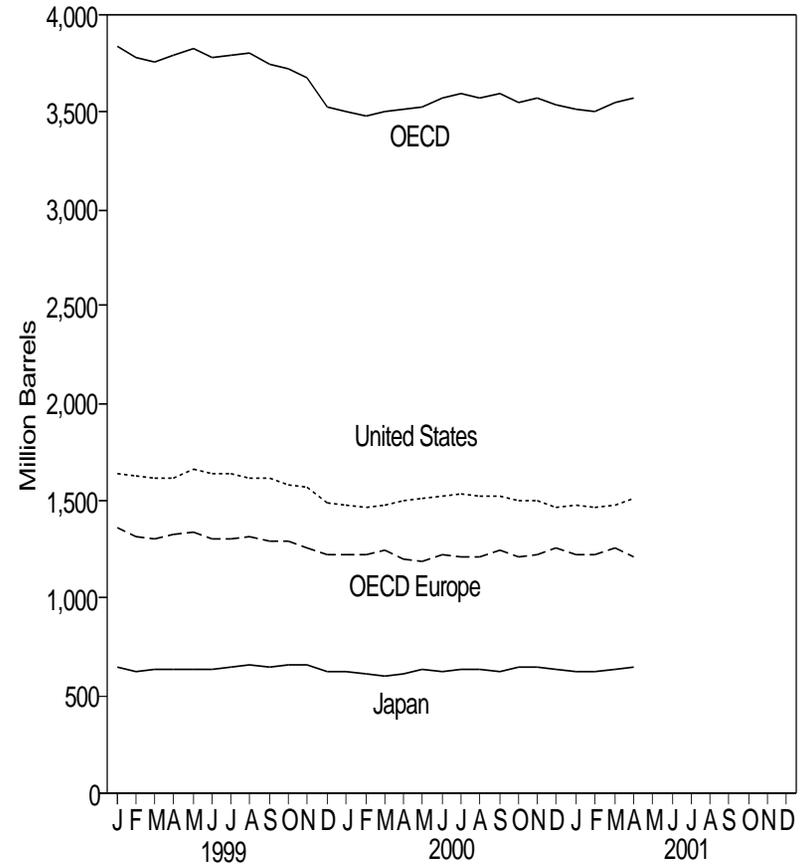
Source: Tables 1.1a-1.1c

Figure 3. OECD Oil Consumption, Monthly



Source: Table 1.7

Figure 4. OECD Oil Stocks, Monthly



Source: Table 1.5

Table 1.1a World Crude Oil Production (Including Lease Condensate), 1990-Present  
(Thousand Barrels per Day)

	Algeria	Indo- nesia	Iran	Iraq	Kuwait <sup>1</sup> / Libya	Nigeria	Qatar	Saudi Arabia <sup>1</sup> / Emirates	United Arab Emirates	Vene- zuela	Total OPEC	
1990 Average.....	1,175	1,462	3,088	2,040	1,175	1,375	1,810	406	6,410	2,117	2,137	23,195
1991 Average.....	1,230	1,592	3,312	305	190	1,483	1,892	395	8,115	2,386	2,375	23,275
1992 Average.....	1,214	1,504	3,429	425	1,058	1,433	1,943	423	8,332	2,266	2,371	24,398
1993 Average.....	1,162	1,511	3,540	512	1,852	1,361	1,960	413	8,198	2,159	2,450	25,119
1994 Average.....	1,180	1,510	3,618	553	2,025	1,378	1,931	415	8,120	2,193	2,588	25,510
1995 Average.....	1,202	1,503	3,643	560	2,057	1,390	1,993	442	8,231	2,233	2,750	26,004
1996 Average.....	1,242	1,547	3,686	579	2,062	1,401	2,001	510	8,218	2,278	2,938	26,461
1997 Average.....	1,277	1,520	3,664	1,155	2,007	1,446	2,132	550	8,362	2,316	3,280	27,710
1998 Average.....	1,246	1,518	3,634	2,150	2,085	1,390	2,153	696	8,389	2,345	3,167	28,774
1999 Average.....	1,202	1,472	3,557	2,508	1,898	1,319	2,130	665	7,833	2,169	2,826	27,579
2000 January.....	1,190	1,460	3,465	2,215	1,962	1,330	2,010	695	7,863	2,245	2,790	27,225
February.....	1,190	1,430	3,525	2,595	2,015	1,380	2,060	705	7,865	2,250	2,850	27,865
March.....	1,190	1,430	3,735	2,215	2,040	1,390	2,080	705	7,865	2,300	2,850	27,800
April.....	1,230	1,460	3,675	2,655	2,100	1,400	2,140	715	8,100	2,380	2,900	28,755
May.....	1,240	1,490	3,685	3,055	2,100	1,400	2,110	735	8,200	2,380	2,930	29,325
June.....	1,250	1,490	3,705	2,565	2,150	1,420	2,140	735	8,250	2,280	2,950	28,935
July.....	1,250	1,490	3,750	2,525	2,170	1,425	2,180	755	8,390	2,320	2,970	29,225
August.....	1,260	1,490	3,750	2,995	2,173	1,420	2,160	755	8,823	2,380	2,980	30,185
September.....	1,250	1,490	3,755	2,875	2,170	1,430	2,110	755	8,975	2,390	2,980	30,180
October.....	1,270	1,460	3,835	3,005	2,210	1,440	2,210	760	8,800	2,410	3,050	30,450
November.....	1,265	1,450	3,830	2,815	2,215	1,440	2,260	765	8,900	2,415	3,050	30,405
December.....	1,280	1,455	3,905	1,355	2,210	1,445	2,265	765	8,800	2,420	3,080	28,980
2000 Average.....	1,239	1,466	3,719	2,571	2,126	1,410	2,144	737	8,404	2,348	2,949	29,113
2001 January.....	1,280	1,435	3,935	1,735	2,200	1,450	2,285	775	8,700	2,440	3,100	29,335
February.....	1,250	1,440	3,785	2,195	2,130	1,400	2,255	735	8,320	2,380	3,030	28,920
March.....	1,250	1,395	3,835	2,855	2,100	1,390	2,285	735	8,300	2,420	3,000	29,565
April.....	1,235	1,370	3,785	2,930	2,010	1,380	2,210	715	7,950	2,330	2,920	28,835
May.....	1,250	1,380	3,685	2,905	1,993	1,360	2,140	725	8,000	2,277	2,890	28,605
June.....	1,270	1,400	3,785	1,105	2,030	1,370	2,205	735	8,050	2,260	2,900	27,110
2001 Average.....	1,256	1,403	3,802	2,292	2,077	1,392	2,230	737	8,221	2,351	2,973	28,734

<sup>1</sup>/ Includes about one-half of the production in the Kuwait-Saudi Arabia Neutral Zone from January 1990 through July 1990 and beginning again in June 1991. Kuwaiti Neutral Zone output was discontinued following Iraq's invasion of Kuwait on August 2, 1990, but was resumed in June 1991. From August 1990 through May 1991, all production in the Neutral Zone was included in the data for Saudi Arabia. In June 2001, Neutral Zone production by both Kuwait and Saudi Arabia totaled about 586 thousand barrels per day. Data for Saudi Arabia include approximately 150,000 barrels per day from the Abu Safah field, produced on behalf of Bahrain.

Notes: \*OPEC=Organization of Petroleum Exporting Countries. \*Monthly data are often preliminary and also may not average to the annual totals due to rounding.

Sources: See end of Section 1.

Table 1.1b World Crude Oil Production (Including Lease Condensate), 1990-Present  
(Thousand Barrels per Day)

	Norway	United Kingdom	North Sea/ Seal/	Angola	Argentina	Australia	Brazil	Canada	China	Colombia	Ecuador
1990 Average.....	1,704	1,820	3,667	475	483	575	631	1,553	2,774	440	285
1991 Average.....	1,890	1,797	3,811	500	485	545	630	1,548	2,835	419	299
1992 Average.....	2,229	1,825	4,182	526	553	535	626	1,605	2,845	433	321
1993 Average.....	2,350	1,915	4,403	509	594	503	643	1,679	2,890	456	344
1994 Average.....	2,521	2,375	5,058	536	650	536	671	1,746	2,939	450	365
1995 Average.....	2,768	2,489	5,400	646	715	562	695	1,805	2,990	585	392
1996 Average.....	3,104	2,568	5,822	709	756	570	795	1,837	3,131	623	396
1997 Average.....	3,143	2,518	5,830	714	834	588	841	1,922	3,200	652	388
1998 Average.....	3,017	2,616	5,806	735	847	544	969	1,981	3,198	733	375
1999 Average.....	3,018	2,684	5,958	766	802	539	1,132	1,907	3,195	816	373
2000 January.....	3,233	2,721	6,283	760	785	717	1,090	1,979	3,250	755	390
February.....	3,348	2,644	6,299	760	760	781	1,090	1,991	3,280	705	390
March.....	3,248	2,678	6,274	760	760	730	1,100	1,892	3,280	725	390
April.....	3,052	2,549	5,954	750	755	717	1,110	1,894	3,300	725	375
May.....	3,149	2,311	5,792	760	755	718	1,120	1,990	3,250	690	370
June.....	2,984	2,446	5,785	750	750	737	1,185	2,020	3,295	705	373
July.....	3,398	2,535	6,273	750	760	742	1,206	1,986	3,280	718	401
August.....	3,025	2,370	5,733	760	770	723	1,225	1,955	3,205	640	410
September.....	3,012	2,315	5,638	740	763	651	1,305	2,007	3,220	642	425
October.....	3,247	2,334	5,930	723	759	681	1,320	1,961	3,210	595	420
November.....	3,327	2,389	6,086	723	757	731	1,365	2,029	3,206	695	415
December.....	3,336	2,413	6,113	721	759	733	1,420	2,021	3,212	693	380
2000 Average.....	3,197	2,475	6,013	746	761	722	1,212	1,977	3,249	691	395
2001 January.....	3,325	2,338	5,999	746	767	682	1,322	2,032	3,220	674	420
February.....	3,153	2,279	5,754	749	768	662	1,345	2,052	3,330	613	408
March.....	3,215	2,323	5,858	731	R764	673	1,264	2,070	3,376	560	425
April.....	3,279	R2,318	R5,909	739	R775	R635	R1,273	2,046	3,302	567	425
May.....	3,011	R2,259	R5,563	738	R784	R604	R1,205	R2,027	3,310	560	420
June.....	3,098	2,109	5,391	734	768	668	1,269	2,059	3,299	555	424
2001 Average.....	3,181	2,272	5,747	739	771	654	1,279	2,048	3,306	588	420

1/ North Sea includes the United Kingdom Offshore, Norway, Denmark, Netherlands Offshore, and Germany Offshore.

R=Revised data.

Notes: •Monthly data are often preliminary and also may not average to the annual totals due to rounding. See Section 4 for historical series.

Sources: See end of Section 1.

Table 1.1c World Crude Oil Production (Including Lease Condensate), 1990-Present  
(Thousand Barrels per Day)

	Egypt	Gabon	India	Malaysia	Mexico	Oman	Russia	Former U.S.S.R.	Syria	United States	Other <sup>1/</sup>	World
1990 Average.....	873	270	660	619	2,553	685	--	10,975	388	7,355	2,253	60,566
1991 Average.....	874	294	615	646	2,680	700	--	9,992	492	7,417	2,274	60,207
1992 Average.....	881	298	561	653	2,669	740	7,632	--	481	7,171	3,229	60,213
1993 Average.....	890	313	534	640	2,673	776	6,730	--	554	6,847	3,279	60,236
1994 Average.....	896	329	590	645	2,685	810	6,135	--	560	6,662	3,380	60,991
1995 Average.....	920	365	703	682	2,618	851	5,995	--	575	6,560	3,414	62,335
1996 Average.....	922	368	651	695	2,855	883	5,850	--	582	6,465	3,490	63,711
1997 Average.....	856	370	675	700	3,023	904	5,920	--	561	6,452	3,719	65,690
1998 Average.....	834	352	661	720	3,070	900	5,854	--	553	6,252	3,936	66,921
1999 Average.....	852	340	653	693	2,906	887	6,079	--	538	5,881	4,231	65,870
2000 January.....	740	350	635	680	3,032	890	6,239	--	530	5,784	4,377	66,163
February....	735	350	621	680	2,897	915	6,248	--	530	5,852	4,342	66,784
March.....	730	350	620	660	2,998	920	6,321	--	530	5,918	4,405	66,816
April.....	735	350	630	660	3,041	900	6,308	--	520	5,854	4,486	67,467
May.....	725	350	645	660	3,040	910	6,352	--	520	5,847	4,464	67,950
June.....	720	340	655	670	3,056	880	6,421	--	520	5,823	4,483	67,748
July.....	706	320	655	670	2,876	900	6,494	--	510	5,739	4,506	68,378
August.....	695	320	655	720	3,162	970	6,546	--	500	5,789	4,539	69,164
September...	690	320	655	720	3,173	980	6,590	--	500	5,758	4,543	69,189
October.....	685	310	655	720	2,861	995	6,711	--	540	5,809	4,640	69,626
November....	680	300	662	720	2,965	1,025	6,737	--	540	5,833	4,670	70,174
December....	677	300	667	720	3,043	1,000	6,771	--	534	5,855	4,674	68,910
2000 Average.....	710	330	646	690	3,012	940	6,479	--	523	5,822	4,511	68,200
2001 January.....	669	300	667	R650	3,087	965	6,875	--	532	E5,836	R4,630	R69,072
February....	659	296	638	R650	3,136	965	6,966	--	530	E5,840	R4,675	R68,634
March.....	655	298	640	R650	3,151	980	6,808	--	528	E5,878	R4,697	R69,251
April.....	652	300	625	R650	3,008	956	6,855	--	522	E5,854	R4,729	R68,345
May.....	R596	303	611	R650	3,031	983	R6,917	--	520	RE5,859	R4,699	R67,691
June.....	627	300	659	650	3,140	975	6,956	--	518	RE5,743	4,618	66,278
2001 Average.....	643	300	640	650	3,092	971	6,895	--	525	PE5,835	4,675	68,215

<sup>1/</sup> Other is a calculated total derived from the difference between "World" and the sum of production in "Total OPEC" (Table 1.1a) and all other countries listed (Tables 1.1b and 1.1c). The total "North Sea" is not subtracted from the world total, though Norway and the United Kingdom have been subtracted.

-- = Not applicable. R=Revised data. E=Estimated. PE=Preliminary estimate. RE=Revised estimate.

Notes: •Monthly data are often preliminary and also may not average to the annual totals due to rounding. See Section 4 for historical series.

Sources: See end of Section 1.

**Table 1.2 OPEC Crude Oil Production (Excluding Condensate), 1990-Present**  
(Thousand Barrels per Day)

	Algeria	Indonesia	Iran	Iraq	Kuwait <sup>1/</sup>	Libya	Nigeria	Qatar	Saudi Arabia <sup>1/</sup>	United Arab Emirates	Venezuela	Total OPEC
1990 Average...	765	1,281	3,088	2,040	1,175	1,375	1,755	406	6,410	2,066	2,100	22,461
1991 Average...	800	1,410	3,312	305	190	1,483	1,832	395	8,115	2,326	2,338	22,506
1992 Average...	772	1,326	3,429	425	1,058	1,433	1,820	423	8,332	2,206	2,334	23,558
1993 Average...	747	1,327	3,540	512	1,852	1,361	1,835	413	8,198	2,109	2,410	24,304
1994 Average...	750	1,334	3,583	548	2,025	1,378	1,821	380	8,120	2,113	2,542	24,594
1995 Average...	767	1,343	3,608	555	2,057	1,390	1,878	407	8,231	2,148	2,710	25,094
1996 Average...	812	1,367	3,651	574	2,062	1,401	1,885	475	8,218	2,198	2,898	25,541
1997 Average...	847	1,355	3,629	1,150	2,007	1,446	2,017	515	8,362	2,236	3,240	26,804
1998 Average...	816	1,338	3,599	2,145	2,085	1,390	2,043	661	8,389	2,265	3,127	27,858
1999 Average...	772	1,324	3,522	2,503	1,898	1,319	2,020	630	7,833	2,089	2,776	26,686
2000 January...	760	1,280	3,430	2,210	1,962	1,330	1,900	660	7,863	2,165	2,740	26,300
February..	760	1,250	3,490	2,590	2,015	1,380	1,950	670	7,865	2,170	2,800	26,940
March.....	760	1,250	3,700	2,210	2,040	1,390	1,970	670	7,865	2,220	2,800	26,875
April.....	800	1,280	3,640	2,650	2,100	1,400	2,030	680	8,100	2,300	2,850	27,830
May.....	810	1,310	3,650	3,050	2,100	1,400	2,000	700	8,200	2,300	2,880	28,400
June.....	820	1,310	3,670	2,560	2,150	1,420	2,030	700	8,250	2,200	2,900	28,010
July.....	820	1,310	3,715	2,520	2,170	1,425	2,070	720	8,390	2,400	2,920	28,300
August....	830	1,310	3,715	2,990	2,173	1,420	2,050	720	8,823	2,300	2,930	29,260
September.	820	1,310	3,720	2,870	2,170	1,430	2,000	720	8,975	2,310	2,930	29,255
October...	840	1,280	3,800	3,000	2,210	1,440	2,100	725	8,800	2,330	3,000	29,525
November..	835	1,270	3,795	2,810	2,215	1,440	2,150	730	8,900	2,335	3,000	29,480
December..	850	1,275	3,870	1,350	2,210	1,445	2,155	730	8,800	2,340	3,030	28,055
2000 Average...	809	1,286	3,684	2,566	2,126	1,410	2,034	702	8,404	2,268	2,899	28,188
2001 January...	850	1,255	3,900	1,730	2,200	1,450	2,150	740	8,700	2,360	3,050	28,385
February..	820	1,260	3,750	2,190	2,130	1,400	2,120	700	8,320	2,300	2,980	27,970
March.....	820	1,235	3,800	2,850	2,100	1,390	2,150	700	8,300	2,340	2,950	28,635
April.....	805	1,210	3,750	2,925	2,010	1,380	2,070	680	7,950	2,250	2,870	27,900
May.....	820	1,220	3,650	2,900	1,993	1,360	2,000	690	8,000	2,197	2,840	27,670
June.....	840	1,240	3,750	1,100	2,030	1,370	2,065	700	8,050	2,180	2,850	26,175
2001 Average...	826	1,236	3,767	2,287	2,077	1,392	2,092	702	8,221	2,271	2,923	27,794

<sup>1/</sup> Includes about one-half of the production in the Kuwait-Saudi Arabia Neutral Zone from January 1990 through July 1990 and beginning again in June 1991. Kuwaiti Neutral Zone output was discontinued following Iraq's invasion of Kuwait on August 2, 1990, but was resumed in June 1991. From August 1990 through May 1991, all production in the Neutral Zone was included in the data for Saudi Arabia. In June 2001, Neutral Zone production by both Kuwait and Saudi Arabia totaled about 586 thousand barrels per day. Data for Saudi Arabia include approximately 150,000 barrels per day from the Abu Safah field, produced on behalf of Bahrain.

Notes: •OPEC=Organization of Petroleum Exporting Countries. See Appendix A for countries in this group.

•Monthly data are often preliminary and also may not average to the annual totals due to rounding.

Sources: See end of Section 1.

**Table 1.3 World Natural Gas Plant Liquids Production, 1990-Present**  
(Thousand Barrels per Day)

	Algeria	Canada	Mexico	Saudi Arabia	Russia	Former USSR	United States <sup>1/</sup>	Persian Gulf <sup>2/</sup>	OAPEC <sup>3/</sup>	OPEC <sup>3/</sup>	World
1990 Average.....	130	426	428	620	--	425	1,559	930	1,107	1,281	4,632
1991 Average.....	140	431	457	680	--	420	1,659	931	1,113	1,299	4,827
1992 Average.....	140	460	454	713	230	--	1,697	1,003	1,185	1,364	4,974
1993 Average.....	145	506	459	704	220	--	1,736	1,040	1,238	1,435	5,180
1994 Average.....	140	529	461	698	200	--	1,727	1,071	1,267	1,465	5,292
1995 Average.....	145	581	447	701	180	--	1,762	1,106	1,301	1,506	5,485
1996 Average.....	150	596	423	697	185	--	1,830	1,082	1,295	1,501	5,576
1997 Average.....	160	636	388	712	195	--	1,817	1,152	1,384	1,589	5,721
1998 Average.....	155	651	424	755	220	--	1,759	1,225	1,449	1,662	5,874
1999 Average.....	190	653	439	666	231	--	1,850	1,152	1,411	1,648	5,984
2000 January.....	190	701	463	665	238	--	1,956	1,160	1,417	1,660	6,258
February.....	190	694	449	665	245	--	1,987	1,165	1,422	1,665	6,226
March.....	190	690	436	665	239	--	1,987	1,165	1,422	1,665	6,198
April.....	190	663	428	685	217	--	1,968	1,185	1,442	1,685	6,143
May.....	190	699	444	690	231	--	1,943	1,190	1,447	1,690	6,154
June.....	190	665	445	695	220	--	1,922	1,195	1,452	1,695	6,121
July.....	190	675	425	705	218	--	1,934	1,205	1,462	1,705	6,071
August.....	190	695	431	735	225	--	1,941	1,235	1,492	1,735	6,145
September.....	190	710	460	750	236	--	1,923	1,250	1,507	1,750	6,234
October.....	190	725	413	740	230	--	1,919	1,240	1,497	1,740	6,183
November.....	190	725	420	740	245	--	1,876	1,240	1,497	1,740	6,290
December.....	190	750	441	735	244	--	1,583	1,235	1,492	1,735	6,005
2000 Average.....	190	699	438	706	232	--	1,911	1,206	1,463	1,706	6,168
2001 January.....	190	680	452	725	246	--	1,381	1,253	1,507	1,753	5,856
February.....	190	749	428	700	247	--	1,728	1,228	1,482	1,728	6,182
March.....	190	740	431	700	244	--	1,830	1,228	1,482	1,718	6,312
April.....	190	713	438	675	233	--	1,836	1,214	1,466	1,704	6,193
May.....	190	730	418	675	200	--	RE1,921	1,214	1,466	1,704	R6,272
June.....	190	730	441	680	200	--	RE1,830	1,219	1,471	1,709	6,136
2001 Average.....	190	723	435	693	228	--	E1,754	1,226	1,479	1,719	6,158

<sup>1/</sup> U.S. geographic coverage is the 50 States and the District of Columbia. Excludes fuel ethanol blended into finished motor gasoline.

<sup>2/</sup> See Appendix A for countries in this group.

<sup>3/</sup> OAPEC=Organization of Arab Petroleum Exporting Countries. OPEC=Organization of Petroleum Exporting Countries. See Appendix A for countries in these groups.

-- = Not applicable. R=Revised data. E=Estimated.

Notes: •Monthly data are often preliminary and also may not average to the annual totals due to rounding. See Section 4 for historical series.

Sources: See end of Section 1.

**Table 1.4 World Oil Supply, 1990-Present**  
(Thousand Barrels per Day)

	United States <sup>1/</sup>	Persian Gulf <sup>2/</sup>	OAPEC <sup>3/</sup>	OPEC <sup>3/</sup>	World
1990 Average.....	9,677	16,249	17,232	24,536	66,743
1991 Average.....	9,883	15,704	16,747	24,625	66,617
1992 Average.....	9,768	17,010	17,871	25,818	66,941
1993 Average.....	9,602	17,792	18,505	26,610	67,335
1994 Average.....	9,413	18,072	18,745	27,031	68,246
1995 Average.....	9,400	18,351	19,069	27,566	69,868
1996 Average.....	9,445	18,486	19,237	28,018	71,397
1997 Average.....	9,461	19,284	20,067	29,355	73,658
1998 Average.....	9,278	20,599	21,282	30,492	75,124
1999 Average.....	8,993	19,856	20,542	29,283	74,184
2000 January.....	9,030	19,678	20,330	28,941	74,875
February.....	9,129	20,193	20,830	29,586	75,464
March.....	9,238	20,098	20,530	29,521	75,511
April.....	9,154	20,883	21,413	30,496	76,106
May.....	9,140	21,418	21,942	31,071	76,619
June.....	9,078	20,953	21,482	30,686	76,367
July.....	8,978	21,188	21,653	30,986	76,918
August.....	9,017	22,183	22,635	31,976	77,761
September.....	9,054	22,243	22,685	31,986	77,960
October.....	9,077	22,333	22,760	32,246	78,322
November.....	9,086	22,253	22,675	32,201	79,005
December.....	8,721	20,763	21,121	30,771	77,362
2000 Average.....	9,058	21,183	21,672	30,874	76,858
2001 January.....	E8,508	21,110	21,431	31,144	R77,384
February.....	E8,889	20,845	21,224	30,704	R77,302
March.....	E8,990	21,545	21,858	31,339	R78,009
April.....	E8,982	21,006	21,333	30,595	R76,994
May.....	RE9,130	20,871	R21,235	30,365	R76,478
June.....	RE8,944	19,256	19,579	28,875	74,950
2001 Average.....	PE8,907	20,778	21,115	30,509	76,855

<sup>1/</sup> U.S. geographic coverage is the 50 States and the District of Columbia. Beginning in 1993, includes fuel ethanol blended into finished motor gasoline and oxygenate production from merchant MTBE plants.

<sup>2/</sup> See Appendix A for countries in this group.

<sup>3/</sup> OAPEC=Organization of Arab Petroleum Exporting Countries. OPEC=Organization of Petroleum Exporting Countries. See Appendix A for countries in these groups.

R=Revised data. E=Estimated. PE=Preliminary estimate. RE=Revised estimate.

Notes: •Oil Supply includes crude oil, natural gas plant liquids, other liquids, and refinery gain. See Explanatory Note 1 in Appendix B. •Monthly data are often preliminary and also may not average to the annual total due to rounding. See Section 4 for historical series.

Sources: See end of Section 1.

Table 1.5 Oil Stocks in OECD Countries, End of Period  
(Million Barrels)

	France	Italy	Germany <sup>1/</sup>	United Kingdom	OECD Europe <sup>2/</sup>	United States <sup>3/</sup>	Canada	Japan	Other <sup>4/</sup>	Total OECD
1990 December.....	140	172	265	112	1,163	1,621	121	590	73	3,568
1991 December.....	153	160	288	119	1,181	1,617	119	606	65	3,588
1992 December.....	146	174	310	113	1,219	1,592	107	603	67	3,588
1993 December.....	158	163	309	118	1,221	1,647	105	618	69	3,661
1994 December.....	158	164	312	115	1,240	1,653	119	645	69	3,726
1995 December.....	159	162	301	107	1,228	1,563	109	630	71	3,601
1996 December.....	158	152	300	108	1,256	1,507	103	651	74	3,591
1997 December.....	164	147	298	104	1,255	1,560	115	685	74	3,689
1998 December.....	161	153	321	108	1,303	1,647	118	649	66	3,784
1999 December.....	163	148	287	104	1,232	1,493	108	629	69	3,530
2000										
January.....	166	153	297	104	R1,228	1,477	108	622	69	R3,504
February.....	167	149	288	106	R1,220	1,466	108	613	72	R3,480
March.....	170	154	285	106	1,243	1,476	110	606	66	3,501
April.....	171	152	281	104	R1,200	1,505	112	618	69	R3,505
May.....	172	148	280	97	R1,188	1,518	110	634	72	R3,522
June.....	174	152	278	99	1,224	1,526	111	632	71	3,563
July.....	171	150	280	105	R1,218	1,540	117	639	77	R3,590
August.....	171	153	274	101	R1,212	1,532	117	639	66	R3,566
September....	172	156	274	99	1,245	1,527	116	627	76	3,591
October.....	170	160	276	102	R1,217	1,507	114	642	71	R3,550
November.....	171	162	272	100	R1,223	1,505	116	645	77	R3,565
December.....	174	157	271	103	1,259	1,468	112	634	70	3,542
2001										
January.....	168	163	273	99	R1,227	1,477	113	628	71	R3,516
February.....	172	R159	275	101	R1,228	1,471	112	620	71	R3,502
March.....	171	163	270	103	1,255	1,477	113	636	70	3,551
April.....	171	158	270	100	1,220	1,517	113	646	69	3,565

<sup>1/</sup> Through December 1990, the data for Germany are for the former West Germany only. Beginning with January 1991, the data for Germany are for the unified Germany, i.e., the former East Germany and West Germany.

<sup>2/</sup> "OECD Europe" consists of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, Turkey, and the United Kingdom.

<sup>3/</sup> U.S. geographic coverage is the 50 States and the District of Columbia.

<sup>4/</sup> "Other" consists of Australia, New Zealand, and the U.S. Territories.

R=Revised data.

Notes: •Oil Stocks - See Explanatory Note 2 in Appendix B. •See Section 4 for historical series.

Sources: See end of Section 1.

Table 1.6 Commercial and Government-Owned Oil Stocks in OECD Countries (End of March 2001)  
(Million Barrels)

Country	Commercial	Government Owned	Total
Canada.....	113	0	113
United States <sup>1</sup> /.....	935	542	1,477
United States Territories.....	18	0	18
Japan.....	324	312	636
Australia/New Zealand.....	52	NA	52
Austria.....	23	0	23
Belgium/Luxembourg.....	32	0	32
Denmark.....	19	0	19
Finland.....	26	0	26
France.....	171	0	171
Germany <sup>2</sup> /.....	215	55	270
Greece.....	28	NA	28
Ireland.....	6	3	9
Italy.....	157	6	163
Netherlands.....	107	0	107
Norway.....	42	0	42
Portugal.....	23	0	23
Spain.....	118	0	118
Sweden.....	30	0	30
Switzerland.....	37	0	37
Turkey.....	54	0	54
United Kingdom.....	103	0	103
OECD Europe.....	1,191	64	1,255
Total OECD.....	2,633	918	3,551

<sup>1</sup>/ U.S. geographic coverage is the 50 States and the District of Columbia.

<sup>2</sup>/ Data are for the unified Germany, i.e., the former East Germany and West Germany.

NA=Not Available.

Notes: •Sum of components may not equal total due to rounding. •Oil Stocks - See Explanatory Note 2 in Appendix B.

•OECD=Organization for Economic Cooperation and Development. See Appendix A for countries in this group.

Sources: See end of Section 1.

Table 1.7. OECD Oil Demand, 1990-Present  
(Thousand Barrels per Day)

	France	Italy	Germany <sup>1/</sup>	United Kingdom	OECD Europe <sup>2/</sup>	United States <sup>3/</sup>	Canada	Japan	Other <sup>4/</sup>	Total OECD
1990 Average....	1,818	1,872	2,382	1,752	12,629	16,988	1,690	5,140	1,027	37,475
1991 Average....	1,935	1,863	2,828	1,801	13,391	16,714	1,622	5,284	1,056	38,067
1992 Average....	1,926	1,937	2,843	1,803	13,605	17,033	1,643	5,446	1,051	38,778
1993 Average....	1,875	1,852	2,900	1,815	13,523	17,237	1,688	5,401	1,117	38,966
1994 Average....	1,833	1,841	2,879	1,837	13,597	17,718	1,727	5,674	1,171	39,887
1995 Average....	1,896	2,048	2,875	1,845	14,120	17,725	1,755	5,711	1,265	40,575
1996 Average....	1,935	2,058	2,911	1,845	14,269	18,309	1,797	5,867	1,190	41,432
1997 Average....	1,954	2,045	2,903	1,781	14,412	18,620	1,842	5,711	1,221	41,807
1998 Average....	2,031	2,072	2,916	1,765	14,699	18,917	1,859	5,512	1,271	42,259
1999 Average....	2,027	1,975	2,822	1,717	14,508	19,519	1,933	5,572	1,305	42,837
2000										
January....	R2,167	R1,841	R2,395	1,664	R13,994	19,026	1,830	5,410	1,388	R41,647
February...	R2,143	R2,003	R2,709	R1,753	R14,924	19,635	R2,058	R6,351	R1,315	R44,283
March.....	R2,124	R1,913	R2,738	1,848	R14,714	19,218	R1,884	R6,217	1,407	R43,441
April.....	R1,949	R1,791	R2,645	1,606	R13,694	18,816	R1,793	R5,202	R1,255	R40,761
May.....	R1,859	R1,767	R2,680	R1,619	R13,940	19,605	R2,014	R4,875	1,311	R41,745
June.....	R1,969	R1,926	R2,703	1,654	R14,189	20,054	1,984	4,886	R1,297	R42,410
July.....	R1,970	R1,829	R2,742	1,598	R13,858	19,696	1,926	R5,237	R1,280	R41,997
August....	R1,980	R1,831	R3,060	R1,721	R14,733	20,496	2,005	R5,487	R1,397	R44,118
September..	R1,808	R1,945	R2,982	R1,754	R14,613	19,899	2,049	R5,435	R1,209	R43,205
October....	R2,256	R1,875	R2,754	R1,751	R14,724	19,798	R2,028	R5,012	R1,361	R42,923
November...	R2,039	R1,902	R2,843	1,790	R14,714	19,328	R2,111	R5,584	R1,376	R43,113
December...	R1,974	R1,993	R2,828	1,603	R14,412	20,814	R2,026	R6,212	R1,361	R44,825
Average....	R2,020	R1,884	R2,756	1,696	R14,373	19,701	1,975	5,490	1,330	R42,870
2001										
January....	2,172	R1,821	2,662	R1,680	R14,346	19,900	1,980	6,037	1,349	R43,613
February...	2,106	R1,912	2,608	R1,665	R14,359	19,597	1,977	6,373	1,396	R43,702
March.....	2,014	R1,800	2,760	R1,766	R14,352	19,892	1,883	5,853	1,432	R43,411
April.....	2,017	1,773	2,693	1,689	13,861	19,591	1,869	5,103	1,354	41,778

<sup>1/</sup> Through December 1990, the data for Germany are for the former West Germany only. Beginning with January 1991, the data for Germany are for the unified Germany, i.e., the former East Germany and West Germany.

<sup>2/</sup> "OECD Europe" consists of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, Turkey, and the United Kingdom.

<sup>3/</sup> U.S. geographic coverage is the 50 States and the District of Columbia.

<sup>4/</sup> "Other" consists of Australia, New Zealand, and the U.S. Territories.

R=Revised data.

Notes: •The term Demand is used interchangeably with Consumption and Petroleum Products Supplied. See Appendix C for definition. •See Section 4 for historical series.

Sources: See end of Section 1.

## Sources for Section 1 (Annual and Monthly Oil Data)

### Crude Oil Production, Natural Gas Liquids Production, Other Liquids, and Refinery Gain

United States: Energy Information Administration (EIA), Petroleum Supply Annual 2000 and Petroleum Supply Monthly, July 2001.

Other Countries: Annual data -- EIA, International Energy Annual, various issues. Monthly data -- Denmark, Mexico, Netherlands, Norway, Germany, and all OPEC countries -- Energy Intelligence Group, Inc., Petroleum Intelligence Weekly, various issues. All Other Countries -- PennWell Publishing Company, Oil and Gas Journal, various issues. Refinery Gains: National Petroleum Council, U.S. Petroleum Refinery Study, December 1986.

### Oil Stocks

United States: EIA, Petroleum Supply Annual 2000 and Petroleum Supply Monthly, July 2001.

Other OECD Countries: • Organization for Economic Cooperation and Development (OECD), Quarterly Oil Statistics and Energy Balances, various issues. • OECD, Monthly Oil Statistics data base, 1990-2001.

### Oil Demand

United States: EIA, Petroleum Supply Annual 2000 and Petroleum Supply Monthly, July 2001.

Other OECD Countries: • OECD, Quarterly Oil Statistics and Energy Balances, various issues. • OECD, Monthly Oil Statistics data base, 1990-2001.

## **2. International Oil Balance Data**

**Table 2.1 World Oil Balance, 1997-2001**  
(Million Barrels Per Day)

	1997	1998	1999	2000				2001					
	Annual		1999	Quarter				Annual		Quarter		Annual	
	Average			First	Second	Third	Fourth	Average		First	Second	Third	Fourth
<b>Supply<sup>1/</sup></b>													
<b>OECD</b>													
United States <sup>2/</sup> .....	9.46	9.28	8.99	9.13	9.12	9.02	8.96	9.06	8.79	9.02	NA	NA	NA
Other OECD.....	10.41	10.40	10.39	11.03	10.53	10.56	10.87	10.74	10.75	10.42	NA	NA	NA
Total OECD.....	19.87	19.68	19.38	20.16	19.65	19.57	19.83	19.80	19.54	19.44	NA	NA	NA
<b>Non-OECD</b>													
OPEC.....	29.35	30.49	29.28	29.34	30.75	31.65	31.73	30.87	31.07	29.95	NA	NA	NA
Former USSR.....	7.22	7.26	7.65	7.89	7.97	8.19	8.46	8.13	8.64	8.66	NA	NA	NA
Other Non-OECD.....	17.22	17.70	17.87	17.89	18.00	18.14	18.20	18.06	18.31	18.10	NA	NA	NA
Total Non-OECD.....	53.79	55.45	54.80	55.12	56.72	57.97	58.40	57.06	58.03	56.71	NA	NA	NA
Total World Supply.....	73.66	75.12	74.18	75.28	76.37	77.54	78.22	76.86	77.57	76.14	NA	NA	NA
<b>Demand<sup>3/</sup></b>													
<b>OECD</b>													
United States <sup>2/</sup> .....	18.62	18.92	19.52	19.29	19.49	20.03	19.99	19.70	19.80	NA	NA	NA	NA
Other OECD.....	23.19	23.34	23.32	23.81	22.15	23.07	23.64	23.17	23.76	NA	NA	NA	NA
Total OECD.....	41.81	42.26	42.84	43.10	41.64	43.11	43.63	42.87	43.57	NA	NA	NA	NA
<b>Non-OECD</b>													
China.....	3.92	4.11	4.32	4.64	4.60	4.55	4.60	4.60	4.82	NA	NA	NA	NA
Former USSR.....	3.86	3.78	3.73	3.85	3.70	3.70	3.70	3.74	3.82	NA	NA	NA	NA
Other Non-OECD.....	23.43	23.50	24.02	24.11	24.44	24.29	24.58	24.36	24.72	NA	NA	NA	NA
Total Non-OECD.....	31.21	31.38	32.07	32.61	32.75	32.55	32.88	32.70	33.37	NA	NA	NA	NA
Total World Demand.....	73.02	73.64	74.91	75.71	74.39	75.66	76.51	75.57	76.94	NA	NA	NA	NA
<b>Stock Draws / Discrepancy</b>													
<b>Net Reported Stock Draws<sup>4/</sup></b>													
U. S. Commercial.....	-.15	-.22	.41	.20	-.55	.00	.33	.00	-.10	NA	NA	NA	NA
U. S. Strategic.....	.01	-.02	.01	-.02	.00	-.01	.32	.07	-.01	NA	NA	NA	NA
Other OECD.....	-.12	-.02	.27	.13	-.13	-.29	-.11	-.10	.01	NA	NA	NA	NA
For Export & Afloat.....	-.12	-.01	.15	-.38	-.49	-.49	.27	-.23	-.28	NA	NA	NA	NA
Commr. Floating Storage...	.00	-.08	-.07	.03	.20	.09	.04	.09	.00	NA	NA	NA	NA
Total Reported Draws.....	-.39	-.36	.77	-.04	-.98	-.70	.85	-.17	-.38	NA	NA	NA	NA
<b>Other Stock Draws and Statistical Discrepancy<sup>5/</sup></b>													
Statistical Discrepancy <sup>5/</sup>	-.25	-1.13	-.05	.46	-1.00	-1.18	-2.56	-1.12	-.26	NA	NA	NA	NA

<sup>1/</sup> Supply includes production of crude oil (including lease condensate), natural gas plant liquids, other hydrogen and hydrocarbons for refinery feedstocks, refinery gains, alcohol, and liquids produced from coal and other sources.

<sup>2/</sup> U.S. geographical coverage is the 50 States and the District of Columbia. See Explanatory Note 1 in Appendix B.

<sup>3/</sup> The term Demand is used interchangeably with the terms Consumption and Petroleum Products Supplied. See Appendix C for definition.

<sup>4/</sup> Stock draws are positive numbers, stock additions are negative numbers.

<sup>5/</sup> This is computed as Total Demand minus the sum of Total Supply and Total Reported Stock Draw.

NA=Not available.

Note: Sum of components may not equal total due to rounding.

Sources: See end of Section 2.

**Table 2.2 World Oil Supply, 1997-2001**  
(Million Barrels Per Day)

	1997	1998	1999	2000				2001						
	Annual		Average	Quarter				Annual		Quarter				Annual
	Average			First	Second	Third	Fourth	Average		First	Second	Third	Fourth	Average
<b>OECD</b>														
United States <sup>1</sup> /...	9.46	9.28	8.99	9.13	9.12	9.02	8.96	9.06	8.79	9.02	NA	NA	NA	
Canada.....	2.62	2.69	2.62	2.71	2.71	2.74	2.80	2.74	2.84	2.83	NA	NA	NA	
North Sea <sup>2</sup> /.....	6.20	6.18	6.32	6.66	6.18	6.18	6.45	6.37	6.35	6.06	NA	NA	NA	
Other OECD.....	1.59	1.53	1.45	1.66	1.64	1.63	1.62	1.64	1.56	1.52	NA	NA	NA	
Total OECD.....	19.87	19.68	19.38	20.16	19.65	19.57	19.83	19.80	19.54	19.44	NA	NA	NA	
<b>Non-OECD</b>														
<b>OPEC</b>														
<b>Crude</b>														
Algeria.....	1.28	1.25	1.20	1.19	1.24	1.25	1.27	1.24	1.26	1.25	NA	NA	NA	
Indonesia.....	1.52	1.52	1.47	1.44	1.48	1.49	1.46	1.47	1.42	1.38	NA	NA	NA	
Iran.....	3.66	3.63	3.56	3.58	3.69	3.75	3.86	3.72	3.85	3.75	NA	NA	NA	
Iraq.....	1.15	2.15	2.51	2.34	2.76	2.80	2.39	2.57	2.26	2.32	NA	NA	NA	
Kuwait.....	2.01	2.09	1.90	2.01	2.12	2.17	2.21	2.13	2.14	2.01	NA	NA	NA	
Libya.....	1.45	1.39	1.32	1.37	1.41	1.42	1.44	1.41	1.41	1.37	NA	NA	NA	
Nigeria.....	2.13	2.15	2.13	2.05	2.13	2.15	2.24	2.14	2.28	2.18	NA	NA	NA	
Qatar.....	.55	.70	.66	.70	.73	.75	.76	.74	.75	.72	NA	NA	NA	
Saudi Arabia..	8.36	8.39	7.83	7.86	8.18	8.73	8.83	8.40	8.44	8.00	NA	NA	NA	
<b>United Arab Emirates...</b>														
Emirates...	2.32	2.35	2.17	2.27	2.35	2.36	2.41	2.35	2.41	2.29	NA	NA	NA	
Venezuela.....	3.28	3.17	2.83	2.83	2.93	2.98	3.06	2.95	3.04	2.90	NA	NA	NA	
<b>Natural Gas</b>														
Plant Liquids	1.59	1.66	1.65	1.66	1.69	1.73	1.74	1.71	1.73	1.71	NA	NA	NA	
Processing Gain.	.06	.06	.06	.06	.06	.06	.06	.06	.06	.06	NA	NA	NA	
Total OPEC.....	29.35	30.49	29.28	29.34	30.75	31.65	31.73	30.87	31.07	29.95	NA	NA	NA	
Former USSR.....	7.22	7.26	7.65	7.89	7.97	8.19	8.46	8.13	8.64	8.66	NA	NA	NA	
China.....	3.20	3.20	3.19	3.27	3.28	3.24	3.21	3.25	3.31	3.30	NA	NA	NA	
Mexico.....	3.44	3.52	3.37	3.45	3.51	3.54	3.41	3.48	3.59	3.52	NA	NA	NA	
Other Non-OECD....	10.58	10.98	11.30	11.16	11.20	11.37	11.59	11.33	11.42	11.27	NA	NA	NA	
Total Non-OECD....	53.79	55.45	54.80	55.12	56.72	57.97	58.40	57.06	58.03	56.71	NA	NA	NA	
Total Supply.....	73.66	75.12	74.18	75.28	76.37	77.54	78.22	76.86	77.57	76.14	NA	NA	NA	

1/ U.S. geographic coverage is the 50 States and the District of Columbia.

2/ North Sea includes the United Kingdom Offshore, Norway, Denmark, Netherlands Offshore, and Germany Offshore.

NA=Not available.

Notes: •Supply includes crude oil (including lease condensate), natural gas plant liquids, (except for individual OPEC countries), other hydrogen and hydrocarbons for refinery feedstocks, alcohol, liquids produced from coal and other sources, and processing gain (except for individual OPEC countries). For OPEC, natural gas plant liquids production and processing gain are shown as separate lines. •Sum of components may not equal total due to rounding.

Sources: See end of Section 2.

**Table 2.3 Oil Stocks, End of Period**  
(Million Barrels)

	1997	1998	1999	2000				2001			
		Year End		Quarter				Quarter			
				First	Second	Third	Fourth	First	Second	Third	Fourth
OECD											
United States <sup>1/</sup>											
Commercial.....	997	1,076	926	907	957	957	927	935	NA	NA	NA
Strategic.....	563	571	567	569	569	570	541	542	NA	NA	NA
U. S. Territories.....	23	22	20	19	20	20	19	18	NA	NA	NA
Canada.....	115	118	108	110	111	116	112	113	NA	NA	NA
Japan.....	685	649	629	606	632	627	634	636	NA	NA	NA
OECD Europe											
France.....	164	161	163	170	174	172	174	171	NA	NA	NA
Germany.....	298	321	287	285	278	274	271	270	NA	NA	NA
Italy.....	147	153	148	154	152	156	157	163	NA	NA	NA
United Kingdom.....	104	108	104	106	99	99	103	103	NA	NA	NA
Other OECD Europe....	542	560	530	528	521	544	554	549	NA	NA	NA
Total.....	1,255	1,303	1,232	1,243	1,224	1,245	1,259	1,255	NA	NA	NA
Australia & New Zealand	51	44	48	47	51	56	51	52	NA	NA	NA
Total OECD.....	3,689	3,784	3,530	3,501	3,563	3,591	3,542	3,551	NA	NA	NA
Stocks for Export											
and Afloat <sup>2/</sup> .....	1,030	1,035	980	1,015	1,060	1,105	1,080	1,090	NA	NA	NA
Commercial Floating <sup>3/</sup> .....	70	100	126	123	105	97	93	93	NA	NA	NA

<sup>1/</sup> U.S. stock data include Alaskan crude oil in transit by water. These data were previously reported in stocks for export and afloat. U.S. geographic coverage is the 50 States and the District of Columbia.

<sup>2/</sup> Stocks held at export terminals of major crude oil producing countries and commercial oil afloat based on quarterly analysis of world seaborne movements.

<sup>3/</sup> Stocks stored by industry in tankers moored offshore. Excludes strategic storage.

Notes: •Oil Stocks - See Note 2 in Appendix B. •Sum of components may not equal total due to rounding.

Sources: See end of Section 2.

**Table 2.4 World Oil Demand, 1997-2001**  
(Million Barrels Per Day)

	1997	1998	1999	2000				2001					
	Annual		Annual	Quarter				Quarter				Annual	
	Average			First	Second	Third	Fourth	Average	First	Second	Third	Fourth	Average
<b>OECD</b>													
United States <sup>1/</sup> .....	18.62	18.92	19.52	19.29	19.49	20.03	19.99	19.70	19.80	NA	NA	NA	NA
U. S. Territories.....	.27	.31	.32	.37	.28	.32	.37	.34	.38	NA	NA	NA	NA
Canada.....	1.84	1.86	1.93	1.92	1.93	1.99	2.05	1.98	1.95	NA	NA	NA	NA
Japan.....	5.71	5.51	5.57	5.99	4.99	5.39	5.60	5.49	6.08	NA	NA	NA	NA
<b>OECD Europe<sup>2/</sup></b>													
France.....	1.95	2.03	2.03	2.14	1.92	1.92	2.09	2.02	2.10	NA	NA	NA	NA
Italy.....	2.04	2.07	1.98	1.92	1.83	1.87	1.92	1.88	1.84	NA	NA	NA	NA
United Kingdom.....	1.78	1.77	1.72	1.75	1.63	1.69	1.71	1.70	1.71	NA	NA	NA	NA
Germany <sup>3/</sup> .....	2.90	2.92	2.82	2.61	2.68	2.93	2.81	2.76	2.68	NA	NA	NA	NA
Other OECD Europe....	5.73	5.91	5.97	6.11	5.89	5.99	6.08	6.02	6.02	NA	NA	NA	NA
Total OECD Europe....	14.41	14.70	14.51	14.54	13.94	14.40	14.62	14.37	14.35	NA	NA	NA	NA
Australia & New Zealand	.95	.96	.98	1.00	1.01	.97	1.00	1.00	1.01	NA	NA	NA	NA
Total OECD.....	41.81	42.26	42.84	43.10	41.64	43.11	43.63	42.87	43.57	NA	NA	NA	NA
<b>Non-OECD</b>													
China.....	3.92	4.11	4.32	4.64	4.60	4.55	4.60	4.60	4.82	NA	NA	NA	NA
Former USSR.....	3.86	3.78	3.73	3.85	3.70	3.70	3.70	3.74	3.82	NA	NA	NA	NA
Other Non-OECD.....	23.43	23.50	24.02	24.11	24.44	24.29	24.58	24.36	24.72	NA	NA	NA	NA
Total Non-OECD.....	31.21	31.38	32.07	32.61	32.75	32.55	32.88	32.70	33.37	NA	NA	NA	NA
Total World Demand.....	73.02	73.64	74.91	75.71	74.39	75.66	76.51	75.57	76.94	NA	NA	NA	NA

<sup>1/</sup> U.S. geographic coverage is the 50 States and the District of Columbia.

<sup>2/</sup> "OECD Europe" consists of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, Turkey, and the United Kingdom.

<sup>3/</sup> Through December 1990, the data for Germany are for the former West Germany only. Beginning with January 1991, the data for Germany are for the unified Germany, i.e., the former East Germany and West Germany.

Notes: •Oil demand includes bunkers and refinery fuel. The term Demand is used interchangeably with the terms Consumption and Petroleum Products Supplied. See Appendix C for definition. •Sum of components may not equal total due to rounding.

Sources: See end of Section 2.

## Sources for Section 2 (International Oil Balance Data)

### Crude Oil Production, Natural Gas Liquids Production, Other Liquids, and Refinery Gain

United States: Energy Information Administration (EIA), Petroleum Supply Annual 2000 and Petroleum Supply Monthly, July 2001.

Other Countries: Annual data -- EIA, International Energy Annual, various issues. Monthly data -- Denmark, Mexico, Netherlands, Norway, Germany, and all OPEC countries -- Energy Intelligence Group, Inc., Petroleum Intelligence Weekly, various issues. Other Countries -- PennWell Publishing Company, Oil and Gas Journal, various issues. Refinery Gains: National Petroleum Council, U.S. Petroleum Refinery Study, December 1986.

### Oil Stocks

United States: EIA, Petroleum Supply Annual 2000 and Petroleum Supply Monthly, July 2001.

Other OECD Countries: • Organization for Economic Cooperation and Development (OECD), Quarterly Oil Statistics and Energy Balances, various issues.  
• OECD, Monthly Oil Statistics data base, 1995-2001. Stocks for Export and Afloat and Commercial Floating Stocks -- Petroleum Economics Limited, Oil Industry Developments, various issues.

### Oil Demand

United States: EIA, Petroleum Supply Annual 2000 and Petroleum Supply Monthly, July 2001.

Other OECD Countries: • OECD, Quarterly Oil Statistics and Energy Balances, various issues. • OECD, Monthly Oil Statistics data base, 1995-2001.

OPEC Countries: EIA, International Energy Annual, various issues and Short-Term Energy Outlook, various issues.

Other countries: EIA, International Energy Annual, various issues and Short-Term Energy Outlook, various issues.

### **3. International Oil Imports**

Table 3.1 Average Net Oil Imports into OECD Countries, (2000 Average)  
(Million Barrels per Day)

	Total	OECD Europe					OECD Outside Europe				
		Total	United Kingdom	France	Germany <sup>1/</sup>	Italy	Other Europe <sup>2/</sup>	United States <sup>3/</sup>	Canada	Japan	Other <sup>4/</sup>
Total Net Imports..	22.201	7.184	-1.063	1.867	2.561	1.744	2.075	10.419	-0.838	5.486	-0.050
Imports from OPEC <sup>5/</sup>	16.413	5.928	.161	.883	.595	1.288	3.001	5.182	.311	4.438	.554
Imports from Persian Gulf <sup>6/</sup>											
Total.....	10.169	3.241	.086	.602	.129	.578	1.846	2.483	.108	4.124	.212
Bahrain.....	.014	.003	.001	.001	-	.000	.001	-.001	.000	.011	.002
Iran.....	1.292	.791	.000	.102	.018	.208	.464	.000	.000	.498	.002
Iraq.....	1.525	.744	-	.148	.004	.168	.423	.620	.047	.072	.043
Kuwait.....	1.068	.260	.016	.029	.013	.031	.171	.272	.000	.536	.000
U.A.E.....	1.394	.028	.015	.007	.000	.000	.005	.012	.000	1.305	.048
Qatar.....	.460	.003	-	.002	-	-	.001	.009	-	.444	.004
Saudi Arabia.....	4.416	1.413	.054	.314	.093	.171	.781	1.571	.061	1.258	.113
Imports from OPEC-Africa											
Total.....	3.791	2.498	.052	.277	.431	.697	1.041	1.121	.099	.017	.056
Algeria.....	1.095	.809	.019	.123	.147	.129	.391	.225	.068	.002	-.009
Libya.....	1.210	1.210	.033	.060	.244	.546	.328	.000	-	-	.000
Nigeria.....	1.486	.479	.001	.094	.040	.023	.322	.896	.030	.015	.065
Imports from OPEC-South America											
Total.....	2.065	.190	.024	.004	.035	.011	.115	1.530	.104	.012	.230
Venezuela.....	2.065	.190	.024	.004	.035	.011	.115	1.530	.104	.012	.230
Imports from OPEC-Far East											
Total.....	.402	.003	-	.001	.000	.001	.001	.047	-	.294	.058
Indonesia.....	.402	.003	-	.001	.000	.001	.001	.047	-	.294	.058

<sup>1/</sup> The data for Germany are for the unified Germany, i.e., the former East Germany and West Germany.

<sup>2/</sup> "Other Europe" consists of Austria, Belgium, Denmark, Finland, Greece, Iceland, Ireland, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, and Turkey.

<sup>3/</sup> U.S. geographic coverage is the 50 States and District of Columbia.

<sup>4/</sup> "Other" consists of Australia, New Zealand, and U. S. Territories.

<sup>5/</sup> OPEC=Organization of Petroleum Exporting Countries. See Appendix A for countries in this group.

<sup>6/</sup> The Persian Gulf countries are all members of OPEC, except for Bahrain.

Notes: •Imports include crude oil, natural gas liquids, and refined products, and are on a direct basis. •OECD=Organization for Economic Cooperation and Development. See Appendix A for countries in this group. •Negative numbers represent net exports. •A dash (-) indicates no trade. •Zeroes (.000) indicate net imports of less than 0.0005 million barrels per day. •See Section 4 for annual data.

Sources: See end of Section 3.

Table 3.2 Net Oil Imports into OECD Countries, (1st Quarter 2001)  
(Million Barrels per Day)

	Total	OECD Europe					OECD Outside Europe				
		Total	United Kingdom	France	Germany <sup>1/</sup>	Italy	Other Europe <sup>2/</sup>	United States <sup>3/</sup>	Canada	Japan	Other <sup>4/</sup>
Total Net Imports..	23.707	7.214	-0.806	1.842	2.537	1.886	1.756	10.880	-0.873	6.094	0.393
Imports from OPEC <sup>5/</sup>	16.860	5.615	.160	.728	.474	1.323	2.930	5.387	.287	4.970	.601
Imports from Persian Gulf <sup>6/</sup>											
Total.....	10.486	2.925	.098	.455	.069	.596	1.706	2.486	.153	4.723	.198
Bahrain.....	.033	.018	.004	.012	-	.000	.002	.000	.000	.015	.000
Iran.....	1.408	.808	.000	.052	.003	.237	.516	.000	.000	.600	.000
Iraq.....	.875	.351	-	.068	.000	.135	.148	.370	.104	.000	.050
Kuwait.....	1.218	.292	.015	.015	.002	.053	.208	.274	.000	.646	.005
U.A.E.....	1.635	.046	.033	.013	.000	.000	.000	.060	.002	1.488	.040
Qatar.....	.552	.002	-	.002	-	-	.000	.009	-	.530	.012
Saudi Arabia.....	4.764	1.408	.046	.293	.064	.172	.832	1.773	.047	1.445	.091
Imports from OPEC-Africa											
Total.....	3.835	2.523	.050	.272	.381	.716	1.104	1.180	.091	.000	.040
Algeria.....	1.004	.697	.011	.123	.088	.116	.359	.264	.045	.000	-.002
Libya.....	1.249	1.249	.039	.054	.259	.543	.353	.000	-	-	.000
Nigeria.....	1.582	.578	.000	.095	.034	.057	.392	.916	.046	.000	.042
Imports from OPEC-South America											
Total.....	2.166	.178	.016	.011	.025	.011	.115	1.657	.042	.013	.277
Venezuela.....	2.166	.178	.016	.011	.025	.011	.115	1.657	.042	.013	.277
Imports from OPEC-Far East											
Total.....	.406	.008	-	.001	.000	.000	.007	.064	-	.248	.086
Indonesia.....	.406	.008	-	.001	.000	.000	.007	.064	-	.248	.086

1/ The data for Germany are for the unified Germany, i.e., the former East Germany and West Germany.

2/ "Other Europe" consists of Austria, Belgium, Denmark, Finland, Greece, Iceland, Ireland, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, and Turkey.

3/ U.S. geographic coverage is the 50 States and District of Columbia.

4/ "Other" consists of Australia, New Zealand, and U. S. Territories.

5/ OPEC=Organization of Petroleum Exporting Countries. See Appendix A for countries in this group.

6/ The Persian Gulf countries are all members of OPEC, except for Bahrain.

NA=Not available.

Notes: •Imports include crude oil, natural gas liquids, and refined products, and are on a direct basis. •OECD=Organization for Economic Cooperation and Development. See Appendix A for countries in this group. •Negative numbers represent net exports. •A dash (-) indicates no trade. •Zeroes (.000) indicate net imports of less than 0.0005 million barrels per day. •See Section 4 for annual data.

Sources: See end of Section 3.

Table 3.3 Net Oil Imports into OECD Countries, (4th Quarter 2000)  
(Million Barrels per Day)

	Total	OECD Europe					OECD Outside Europe				
		Total	United Kingdom	France	Germany <sup>1/</sup>	Italy	Other Europe <sup>2/</sup>	United States <sup>3/</sup>	Canada	Japan	Other <sup>4/</sup>
Total Net Imports..	22.618	7.547	-0.943	1.893	2.629	1.753	2.215	10.388	-0.864	5.584	-0.036
Imports from OPEC <sup>5/</sup>	17.243	6.336	.155	.960	.609	1.357	3.255	5.353	.308	4.642	.604
Imports from Persian Gulf <sup>6/</sup>											
Total.....	10.696	3.417	.091	.652	.128	.614	1.931	2.584	.110	4.330	.255
Bahrain.....	.021	.011	.003	.002	-	.000	.006	-.001	.000	.007	.004
Iran.....	1.298	.800	.000	.101	.009	.228	.462	.000	.000	.494	.004
Iraq.....	1.525	.695	-	.157	.002	.142	.395	.589	.042	.169	.031
Kuwait.....	1.165	.247	.017	.024	.012	.032	.162	.310	.000	.608	-.001
U.A.E.....	1.442	.043	.022	.009	.000	.000	.012	.007	.000	1.302	.090
Qatar.....	.466	.003	-	.000	-	-	.003	.008	-	.446	.009
Saudi Arabia.....	4.779	1.619	.050	.359	.105	.213	.892	1.671	.068	1.304	.118
Imports from OPEC-Africa											
Total.....	3.983	2.747	.044	.305	.450	.726	1.221	1.047	.105	.041	.042
Algeria.....	1.136	.829	.005	.112	.152	.134	.426	.221	.089	.000	-.004
Libya.....	1.286	1.286	.039	.051	.250	.556	.391	.000	-	-	.000
Nigeria.....	1.561	.631	.000	.142	.048	.036	.404	.827	.016	.041	.046
Imports from OPEC-South America											
Total.....	2.194	.177	.022	.002	.030	.014	.108	1.658	.093	.013	.252
Venezuela.....	2.194	.177	.022	.002	.030	.014	.108	1.658	.093	.013	.252
Imports from OPEC-Far East											
Total.....	.392	.006	-	.003	.000	.003	.000	.062	-	.265	.059
Indonesia.....	.392	.006	-	.003	.000	.003	.000	.062	-	.265	.059

<sup>1/</sup> The data for Germany are for unified Germany, i.e., the former East Germany and West Germany.

<sup>2/</sup> "Other Europe" consists of Austria, Belgium, Denmark, Finland, Greece, Iceland, Ireland, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, and Turkey.

<sup>3/</sup> U.S. geographic coverage is the 50 States and District of Columbia.

<sup>4/</sup> "Other" consists of Australia, New Zealand, and U. S. Territories.

<sup>5/</sup> OPEC=Organization of Petroleum Exporting Countries. See Appendix A for countries in this group.

<sup>6/</sup> The Persian Gulf countries are all members of OPEC, except for Bahrain.

Notes: •Imports include crude oil, natural gas liquids, and refined products, and are on a direct basis. •OECD=Organization for Economic Cooperation and Development. See Appendix A for countries in this group. •Negative numbers represent net exports. •A dash (-) indicates no trade. •Zeroes (.000) indicate net imports of less than 0.0005 million barrels per day. •See Section 4 for annual data.

Sources: See end of Section 3.

Table 3.4 OECD Total Net Imports (Most Recent 12 Months)  
(Million Barrels per Day)

	2000								2001			
	May	June	July	August	Sept	Oct	Nov	Dec	Jan	Feb	Mar	April
Total.....	21.681	22.579	22.289	23.751	22.425	21.939	22.644	23.272	23.272	23.550	24.285	22.555
United States <sup>1</sup> /....	10.559	11.107	10.688	11.099	10.841	9.998	10.201	10.958	11.154	10.447	10.996	11.361
Canada.....	-.908	-.762	-.683	-.740	-.800	-.887	-.739	-.962	-.815	-.969	-.843	-.871
OECD Europe <sup>2</sup> /.....	6.590	7.424	6.798	7.560	7.877	7.267	7.633	7.742	6.640	7.640	7.405	6.284
Main European Importers												
France.....	1.879	1.678	1.723	1.777	1.685	1.858	1.922	1.900	1.799	1.953	1.786	1.686
Germany <sup>3</sup> /.....	2.470	2.442	2.652	2.679	2.837	2.631	2.625	2.631	2.640	2.627	2.351	2.588
Italy.....	1.510	1.817	1.598	1.766	1.875	1.693	1.775	1.792	2.037	1.803	1.809	1.576
Spain.....	1.352	1.464	1.364	1.390	1.438	1.435	1.339	1.496	1.458	1.414	1.447	1.361
Netherlands.....	.813	1.058	.868	1.014	.776	.717	.956	1.064	.960	.784	1.021	.650
European Net Exporters												
Norway.....	-3.160	-2.947	-3.248	-3.279	-2.775	-3.308	-3.293	-3.198	-3.909	-3.133	-3.422	-3.519
United Kingdom....	-1.027	-1.184	-1.028	-1.050	-.915	-.859	-.856	-1.113	-.941	-.714	-.754	-.971
Smaller European Importers												
Austria.....	.164	.249	.212	.230	.283	.254	.197	.198	.201	.240	.222	.186
Belgium.....	.459	.592	.535	.582	.463	.576	.633	.690	.659	.535	.537	.439
Denmark.....	-.143	-.156	-.139	-.122	-.193	-.141	-.173	-.207	-.172	-.172	-.136	-.147
Ireland.....	.164	.159	.113	.117	.151	.165	.121	.132	.141	.132	.192	.118
Finland.....	.234	.307	.260	.238	.087	.280	.287	.259	.091	.183	.297	.143
Greece.....	.329	.388	.290	.403	.435	.408	.398	.371	.388	.369	.414	.400
Iceland.....	.026	.013	.014	.022	.023	.019	.018	.015	.010	.011	.028	.012
Luxembourg.....	.048	.041	.048	.047	.048	.053	.055	.052	.047	.051	.052	.052
Portugal.....	.352	.269	.317	.399	.330	.270	.349	.349	.230	.316	.284	.331
Sweden.....	.366	.312	.378	.361	.429	.234	.378	.320	.271	.288	.469	.437
Switzerland.....	.251	.238	.245	.270	.289	.259	.266	.257	.291	.298	.243	.288
Turkey.....	.504	.684	.597	.716	.611	.722	.637	.736	.437	.653	.562	.654
Japan.....	5.326	4.823	5.306	5.733	4.674	5.448	5.690	5.618	5.957	6.081	6.242	5.458
Other OECD.....	.113	-.013	.180	.099	-.167	.113	-.142	-.084	.337	.351	.486	.322

<sup>1</sup>/ U.S. geographic coverage is the 50 States and District of Columbia.

<sup>2</sup>/ "OECD Europe" consists of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, Turkey, and the United Kingdom.

<sup>3</sup>/ The data for Germany are for the unified Germany, i.e., the former East Germany and West Germany.

Notes: •Imports include crude oil, natural gas liquids, and refined products, and are on a direct basis. •OECD=Organization for Economic Cooperation and Development. See Appendix A for countries in this group. •Negative numbers represent net exports. •A dash (-) indicates no trade. •Zeroes (.000) indicate net imports of less than 0.0005 million barrels per day. •See Section 4 for annual data.

Sources: See end of Section 3.

**Table 3.5 OECD Imports from OPEC (Most Recent 12 Months)**  
(Million Barrels per Day)

	2000								2001			
	May	June	July	August	Sept	Oct	Nov	Dec	Jan	Feb	Mar	April
Total.....	15.588	16.505	15.958	17.597	16.504	17.237	17.075	17.410	16.828	16.267	17.427	16.530
United States <sup>1</sup> /.....	4.889	5.539	5.155	5.880	5.450	5.295	5.212	5.546	5.385	4.975	5.760	5.964
Canada.....	.249	.401	.349	.334	.250	.288	.301	.336	.309	.230	.315	.267
OECD Europe <sup>2</sup> /.....	5.507	6.079	5.663	6.082	6.462	6.389	6.285	6.330	5.650	5.477	5.706	5.324
Main European Importers												
France.....	.833	.984	.952	.812	.828	1.012	.850	1.013	.665	.836	.693	.621
Germany <sup>3</sup> /.....	.612	.499	.698	.674	.685	.640	.632	.555	.529	.520	.378	.542
Italy.....	1.291	1.306	1.052	1.288	1.417	1.253	1.423	1.398	1.378	1.238	1.345	1.122
Spain.....	.742	.829	.724	.789	.808	.991	.869	.896	.929	.663	.870	.626
Netherlands.....	.543	.816	.751	.644	.960	.742	.771	.739	.725	.694	.880	.716
European Net Exporters												
Norway.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.004	.000
United Kingdom....	.218	.220	.164	.169	.164	.144	.189	.133	.143	.150	.187	.170
Smaller European Importers												
Austria.....	.059	.101	.090	.110	.099	.085	.103	.113	.074	.086	.071	.092
Belgium.....	.256	.247	.211	.271	.380	.359	.270	.350	.222	.177	.184	.161
Denmark.....	.032	.039	.012	.067	.020	.040	.025	.026	.031	.026	.024	.025
Finland.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
Greece.....	.329	.313	.263	.245	.382	.301	.347	.278	.345	.299	.342	.376
Portugal.....	.125	.090	.204	.300	.159	.189	.200	.177	.105	.156	.121	.197
Sweden.....	.030	.103	.081	.179	.039	.041	.142	.097	.081	.089	.143	.083
Switzerland.....	.077	.092	.093	.098	.103	.096	.086	.113	.111	.116	.112	.099
Turkey.....	.360	.439	.368	.437	.418	.495	.378	.444	.313	.426	.351	.494
Japan.....	4.354	3.923	4.056	4.752	3.862	4.600	4.686	4.642	4.876	5.019	5.019	4.415
Other OECD.....	.588	.562	.736	.550	.480	.664	.591	.555	.608	.567	.627	.561

1/ U.S. geographic coverage is the 50 States and District of Columbia.

2/ "OECD Europe" consists of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, Turkey, and the United Kingdom.

3/ The data for Germany are for the unified Germany, i.e., the former East Germany and West Germany.

NA=Not available.

Notes: •Imports include crude oil, natural gas liquids, and refined products, and are on a direct basis. •OECD=Organization for Economic Cooperation and Development; OPEC=Organization of Petroleum Exporting Countries. See Appendix A for countries in these groups. •Negative numbers represent net exports. •A dash (-) indicates no trade. •Zeroes (.000) indicate net imports of less than 0.0005 million barrels per day. •See Section 4 for annual data.

Sources: See end of Section 3.

**Table 3.6 OECD Imports from Persian Gulf (Most Recent 12 Months)**  
(Million Barrels per Day)

	2000								2001			
	May	June	July	August	Sept	Oct	Nov	Dec	Jan	Feb	Mar	April
Total.....	9.754	10.205	9.897	11.156	10.441	10.679	10.801	10.610	10.473	9.930	11.000	10.168
United States <sup>1</sup> /.....	2.208	2.586	2.609	2.822	2.821	2.505	2.469	2.774	2.436	2.334	2.674	2.861
Canada.....	.062	.141	.158	.154	.088	.085	.181	.066	.193	.077	.183	.066
OECD Europe <sup>2</sup> /.....	3.213	3.615	3.224	3.451	3.763	3.498	3.430	3.322	2.990	2.634	3.122	2.882
Main European Importers												
France.....	.557	.745	.721	.567	.612	.667	.592	.694	.344	.541	.488	.401
Germany <sup>3</sup> /.....	.167	.112	.170	.176	.164	.152	.126	.106	.101	.059	.046	.076
Italy.....	.642	.649	.480	.568	.719	.636	.627	.580	.645	.453	.677	.406
Spain.....	.358	.354	.268	.374	.335	.382	.350	.265	.340	.190	.345	.264
Netherlands.....	.411	.641	.574	.486	.786	.529	.623	.462	.588	.445	.613	.558
European Net Exporters												
United Kingdom....	.132	.146	.100	.098	.068	.075	.105	.094	.099	.109	.089	.105
Smaller European Importers												
Austria.....	.035	.069	.030	.055	.038	.033	.042	.045	.023	.041	.036	.047
Belgium.....	.232	.211	.187	.241	.327	.321	.230	.344	.201	.160	.151	.144
Denmark.....	.008	.014	.012	.020	.000	.012	.006	.013	.013	.004	.000	.013
Finland.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
Greece.....	.307	.271	.226	.231	.341	.285	.290	.240	.299	.235	.293	.366
Portugal.....	.074	.060	.155	.173	.087	.091	.078	.148	.040	.091	.031	.094
Sweden.....	.000	.070	.068	.131	.013	.000	.135	.067	.067	.074	.135	.069
Switzerland.....	.012	.012	.009	.009	.007	.012	.007	.000	.000	.010	.009	.015
Turkey.....	.279	.262	.223	.322	.266	.303	.220	.262	.231	.222	.207	.325
Japan.....	4.056	3.582	3.674	4.447	3.520	4.337	4.404	4.252	4.674	4.712	4.783	4.191
Other OECD.....	.215	.281	.232	.281	.249	.255	.317	.196	.180	.173	.238	.168

<sup>1</sup>/ U.S. geographic coverage is the 50 States and District of Columbia.

<sup>2</sup>/ "OECD Europe" consists of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, Turkey, and the United Kingdom.

<sup>3</sup>/ The data for Germany are for the unified Germany, i.e., the former East Germany and West Germany.

NA=Not available.

Notes: •Imports include crude oil, natural gas liquids, and refined products, and are on a direct basis. •OECD=Organization for Economic Cooperation and Development. See Appendix A for countries in this group. •"Persian Gulf" consists of Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and the United Arab Emirates. •Negative numbers represent net exports.

•A dash (-) indicates no trade. •Zeroes (.000) indicate net imports of less than 0.0005 million barrels per day. •See Section 4 for annual data.

Sources: See end of Section 3.

**Table 3.7 United States--Net Oil Imports (Most Recent 12 Months)**  
(Million Barrels per Day)

	2000								2001			
	May	June	July	August	Sept	Oct	Nov	Dec	Jan	Feb	Mar	April
Total Net Imports..	10.559	11.107	10.688	11.099	10.841	9.998	10.201	10.958	11.154	10.447	10.996	11.361
Imports from OPEC <sup>1/</sup>	4.889	5.539	5.155	5.880	5.450	5.295	5.212	5.546	5.385	4.975	5.760	5.964
Imports from Persian Gulf <sup>2/</sup>												
Total.....	2.208	2.586	2.609	2.822	2.821	2.505	2.469	2.774	2.436	2.334	2.674	2.861
Bahrain.....	-.003	.000	.000	.000	-.001	.000	.000	-.003	.000	.000	.000	.000
Iran.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
Iraq.....	.438	.830	.762	.765	.765	.653	.585	.528	.294	.236	.566	.862
Kuwait.....	.170	.210	.264	.405	.352	.337	.248	.344	.242	.280	.302	.242
U.A.E.....	.028	.024	.021	-.003	.028	.009	.006	.005	.135	.041	.001	.081
Qatar.....	.009	.010	.008	.006	.010	.007	.015	.003	.007	.000	.020	.019
Saudi Arabia.....	1.566	1.512	1.554	1.649	1.667	1.499	1.615	1.897	1.758	1.777	1.785	1.657
Imports from OPEC-Africa												
Total.....	1.183	1.411	1.100	1.358	1.236	1.155	1.063	.925	1.159	1.115	1.260	1.448
Algeria.....	.270	.222	.205	.236	.216	.210	.212	.240	.286	.223	.279	.326
Libya.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
Nigeria.....	.913	1.189	.895	1.122	1.020	.945	.851	.685	.873	.892	.981	1.122
Imports from OPEC-South America												
Total.....	1.461	1.496	1.429	1.639	1.365	1.598	1.624	1.752	1.742	1.453	1.755	1.597
Venezuela.....	1.461	1.496	1.429	1.639	1.365	1.598	1.624	1.752	1.742	1.453	1.755	1.597
Imports from OPEC-Far East												
Total.....	.034	.046	.017	.061	.027	.037	.056	.092	.048	.073	.071	.058
Indonesia.....	.034	.046	.017	.061	.027	.037	.056	.092	.048	.073	.071	.058

<sup>1/</sup> OPEC=Organization of Petroleum Exporting Countries. See Appendix A for countries in this group.

<sup>2/</sup> The Persian Gulf countries are all members of OPEC, except for Bahrain.

Notes: •Imports include crude oil, natural gas liquids, and refined products, and are on a direct basis. •U.S. geographic coverage is the 50 States and District of Columbia. •Negative numbers represent net exports. •A dash (-) indicates no trade.

•Zeroes (.000) indicate net imports of less than 0.0005 million barrels per day. •See Section 4 for annual data.

Sources: See end of Section 3.

**Table 3.8 Japan--Net Oil Imports (Most Recent 12 Months)**  
(Million Barrels per Day)

	2000								2001			
	May	June	July	August	Sept	Oct	Nov	Dec	Jan	Feb	Mar	April
Total Net Imports..	5.326	4.823	5.306	5.733	4.674	5.448	5.690	5.618	5.957	6.081	6.242	5.458
Imports from OPEC <sup>1/</sup>	4.354	3.923	4.056	4.752	3.862	4.600	4.686	4.642	4.876	5.019	5.019	4.415
Imports from Persian Gulf <sup>2/</sup>												
Total.....	4.056	3.582	3.674	4.447	3.520	4.337	4.404	4.252	4.674	4.712	4.783	4.191
Bahrain.....	.016	.000	.013	.016	.007	.014	.008	.000	.021	.008	.015	.024
Iran.....	.380	.425	.474	.511	.472	.475	.660	.351	.652	.598	.549	.612
Iraq.....	.000	.067	.000	.108	.064	.191	.205	.110	.000	.000	.000	.000
Kuwait.....	.510	.488	.410	.576	.441	.633	.535	.655	.595	.709	.640	.466
U.A.E.....	1.253	1.242	1.221	1.363	1.162	1.262	1.321	1.325	1.450	1.536	1.482	1.297
Qatar.....	.439	.358	.507	.405	.385	.505	.382	.447	.557	.537	.496	.554
Saudi Arabia.....	1.457	1.002	1.049	1.470	.988	1.256	1.293	1.363	1.399	1.323	1.601	1.238
Imports from OPEC-Africa												
Total.....	.000	.016	.000	.000	.000	.000	.063	.061	.000	.000	.000	.010
Algeria.....	.000	.016	.000	.000	.000	.000	.000	.000	.000	.000	.000	.010
Nigeria.....	.000	.000	.000	.000	.000	.000	.063	.061	.000	.000	.000	.000
Imports from OPEC-South America												
Total.....	.013	.013	.020	.000	.022	.020	.019	.000	.020	.021	.000	.022
Venezuela.....	.013	.013	.020	.000	.022	.020	.019	.000	.020	.021	.000	.022
Imports from OPEC-Far East												
Total.....	.301	.311	.375	.320	.326	.257	.207	.329	.203	.295	.251	.216
Indonesia.....	.301	.311	.375	.320	.326	.257	.207	.329	.203	.295	.251	.216

<sup>1/</sup> OPEC=Organization of Petroleum Exporting Countries. See Appendix A for countries in this group.

<sup>2/</sup> The Persian Gulf countries are all members of OPEC, except for Bahrain.

Notes: •Imports include crude oil, natural gas liquids, and refined products, and are on a direct basis.

•Negative numbers represent net exports. •A dash (-) indicates no trade. •Zeroes (.000) indicate net imports of less than 0.0005 million barrels per day. •See Section 4 for annual data.

Sources: See end of Section 3.

**Table 3.9 OECD Europe--Net Oil Imports (Most Recent 12 Months)**  
(Million Barrels per Day)

	2000								2001			
	May	June	July	August	Sept	Oct	Nov	Dec	Jan	Feb	Mar	April
Total Net Imports..	6.590	7.424	6.798	7.560	7.877	7.267	7.633	7.742	6.640	7.640	7.405	6.284
Imports from OPEC <sup>1/</sup>	5.507	6.079	5.663	6.082	6.462	6.389	6.285	6.330	5.650	5.477	5.706	5.324
Imports from Persian Gulf <sup>2/</sup>												
Total.....	3.213	3.615	3.224	3.451	3.763	3.498	3.430	3.322	2.990	2.634	3.122	2.882
Bahrain.....	.000	.000	.000	.000	.000	.010	.008	.014	.024	.024	.008	.025
Iran.....	.815	.753	.925	.974	.851	.888	.616	.890	.979	.541	.878	.557
Iraq.....	.867	.949	.523	.838	.867	.701	.985	.409	.149	.404	.503	.836
Kuwait.....	.201	.349	.248	.249	.391	.208	.352	.184	.331	.244	.297	.192
U.A.E.....	.001	.031	.068	.065	.039	.066	.032	.029	.067	.054	.016	.044
Qatar.....	.000	.000	.000	.000	.000	.000	.000	.008	.000	.000	.005	.000
Saudi Arabia.....	1.328	1.534	1.460	1.325	1.615	1.624	1.437	1.788	1.439	1.367	1.414	1.227
Imports from OPEC-Africa												
Total.....	2.105	2.260	2.289	2.318	2.547	2.690	2.690	2.858	2.481	2.680	2.424	2.278
Algeria.....	.742	.756	.832	.770	.877	.822	.706	.957	.612	.813	.678	.640
Libya.....	1.076	1.231	1.152	1.150	1.308	1.234	1.354	1.274	1.210	1.362	1.186	1.274
Nigeria.....	.287	.272	.305	.399	.363	.634	.631	.628	.659	.506	.561	.363
Imports from OPEC-South America												
Total.....	.189	.204	.141	.312	.150	.202	.165	.163	.199	.166	.167	.188
Venezuela.....	.189	.204	.141	.312	.150	.202	.165	.163	.199	.166	.167	.188
Imports from OPEC-Far East												
Total.....	.000	.001	.010	.001	.001	.009	.008	.001	.004	.020	.001	.001
Indonesia.....	.000	.001	.010	.001	.001	.009	.008	.001	.004	.020	.001	.001

<sup>1/</sup> OPEC=Organization of Petroleum Exporting Countries. See Appendix A for countries in this group.

<sup>2/</sup> The Persian Gulf countries are all members of OPEC, except for Bahrain.

NA=Not available.

Notes: •Imports include crude oil, natural gas liquids, and refined products, and are on a direct basis. Data for France in January and February 1999 are not available. •"OECD Europe" consists of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, Turkey, and the United Kingdom. •Negative numbers represent net exports. •A dash (-) indicates no trade. •Zeroes (.000) indicate net imports of less than 0.0005 million barrels per day.

•See Section 4 for annual data.

Sources: See end of Section 3.

**Table 3.10 France--Net Oil Imports (Most Recent 12 Months)**  
(Million Barrels per Day)

	2000							2001				
	May	June	July	August	Sept	Oct	Nov	Dec	Jan	Feb	Mar	April
Total Net Imports..	1.879	1.678	1.723	1.777	1.685	1.858	1.922	1.900	1.799	1.953	1.786	1.686
Imports from OPEC <sup>1/</sup>	.833	.984	.952	.812	.828	1.012	.850	1.013	.665	.836	.693	.621
Imports from Persian Gulf <sup>2/</sup>												
Total.....	.557	.745	.721	.567	.612	.667	.592	.694	.344	.541	.488	.401
Bahrain.....	.000	.000	.000	.000	.000	.002	.002	.002	.017	.010	.008	.000
Iran.....	.098	.098	.094	.123	.097	.151	.053	.098	.032	.034	.089	.079
Iraq.....	.175	.190	.183	.181	.099	.152	.155	.162	.005	.141	.065	.068
Kuwait.....	.064	.040	.039	.000	.048	.000	.069	.006	.000	.005	.039	.017
U.A.E.....	.001	.019	.018	.020	.003	.018	.000	.007	.035	.000	.003	.007
Qatar.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.005	.000
Saudi Arabia.....	.220	.399	.386	.243	.363	.344	.312	.419	.255	.351	.279	.231
Imports from OPEC-Africa												
Total.....	.271	.234	.226	.239	.211	.342	.253	.318	.315	.302	.202	.218
Algeria.....	.123	.159	.154	.102	.121	.143	.075	.117	.118	.146	.108	.082
Libya.....	.087	.064	.062	.076	.041	.074	.058	.020	.069	.051	.042	.048
Nigeria.....	.061	.010	.010	.061	.049	.125	.120	.181	.129	.105	.053	.088
Imports from OPEC-South America												
Total.....	.004	.005	.005	.005	.005	.005	.000	.002	.022	.001	.010	.000
Venezuela.....	.004	.005	.005	.005	.005	.005	.000	.002	.022	.001	.010	.000
Imports from OPEC-Far East												
Total.....	.000	.001	.001	.001	.001	.001	.008	.001	.001	.001	.001	.001
Indonesia.....	.000	.001	.001	.001	.001	.001	.008	.001	.001	.001	.001	.001

<sup>1/</sup> OPEC=Organization of Petroleum Exporting Countries. See Appendix A for countries in this group.

<sup>2/</sup> The Persian Gulf countries are all members of OPEC, except for Bahrain.

NA=Not available.

Notes: •Imports include crude oil, natural gas liquids, and refined products, and are on a direct basis. •Negative numbers represent net exports. •A dash (-) indicates no trade. •Zeroes (.000) indicate net imports of less than 0.0005 million barrels per day. •See Section 4 for annual data.

Sources: See end of Section 3.

**Table 3.11 Germany--Net Oil Imports (Most Recent 12 Months)**  
(Million Barrels per Day)

	2000							2001				
	May	June	July	August	Sept	Oct	Nov	Dec	Jan	Feb	Mar	April
Total Net Imports..	2.470	2.442	2.652	2.679	2.837	2.631	2.625	2.631	2.640	2.627	2.351	2.588
Imports from OPEC <sup>1/</sup>	.612	.499	.698	.674	.685	.640	.632	.555	.529	.520	.378	.542
Imports from Persian Gulf <sup>2/</sup>												
Total.....	.167	.112	.170	.176	.164	.152	.126	.106	.101	.059	.046	.076
Iran.....	.038	.010	.049	.036	.000	.022	.006	.000	.004	.000	.005	.000
Iraq.....	.014	.007	.012	.008	.000	.000	.005	.000	.000	.000	.000	.000
Kuwait.....	.020	.010	.010	.024	.010	.020	.011	.006	.005	.000	.000	.000
U.A.E.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
Saudi Arabia.....	.096	.084	.099	.108	.153	.109	.104	.101	.092	.059	.040	.076
Imports from OPEC-Africa												
Total.....	.383	.343	.507	.437	.483	.442	.491	.419	.385	.444	.320	.429
Algeria.....	.150	.117	.210	.158	.193	.158	.128	.170	.077	.134	.057	.120
Libya.....	.207	.191	.251	.248	.280	.257	.284	.212	.261	.276	.242	.266
Nigeria.....	.026	.035	.046	.031	.010	.027	.080	.038	.047	.034	.020	.043
Imports from OPEC-South America												
Total.....	.062	.044	.021	.060	.038	.047	.015	.029	.043	.017	.013	.038
Venezuela.....	.062	.044	.021	.060	.038	.047	.015	.029	.043	.017	.013	.038
Imports from OPEC-Far East												
Total.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
Indonesia.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

<sup>1/</sup> OPEC=Organization of Petroleum Exporting Countries. See Appendix A for countries in this group.

<sup>2/</sup> The Persian Gulf countries are all members of OPEC, except for Bahrain.

Notes: •Imports include crude oil, natural gas liquids, and refined products, and are on a direct basis. •The data for Germany are for the unified Germany, i.e., the former East Germany and West Germany. •Negative numbers represent net exports.

•A dash (-) indicates no trade. •Zeroes (.000) indicate net imports of less than 0.0005 million barrels per day. •See Section 4 for annual data.

Sources: See end of Section 3.

**Table 3.12 Italy--Net Oil Imports (Most Recent 12 Months)**  
(Million Barrels per Day)

	2000							2001				
	May	June	July	August	Sept	Oct	Nov	Dec	Jan	Feb	Mar	April
Total Net Imports..	1.510	1.817	1.598	1.766	1.875	1.693	1.775	1.792	2.037	1.803	1.809	1.576
Imports from OPEC <sup>1/</sup>	1.291	1.306	1.052	1.288	1.417	1.253	1.423	1.398	1.378	1.238	1.345	1.122
Imports from Persian Gulf <sup>2/</sup>												
Total.....	.642	.649	.480	.568	.719	.636	.627	.580	.645	.453	.677	.406
Bahrain.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
Iran.....	.225	.222	.226	.170	.279	.215	.267	.202	.291	.103	.304	.132
Iraq.....	.197	.199	.137	.158	.207	.170	.192	.065	.055	.168	.185	.122
Kuwait.....	.030	.031	.000	.032	.031	.063	.031	.000	.072	.045	.040	.031
U.A.E.....	.000	.000	.006	.000	.000	.000	.000	.000	.000	.000	.000	.000
Saudi Arabia.....	.189	.196	.111	.207	.202	.187	.137	.313	.228	.137	.148	.120
Imports from OPEC-Africa												
Total.....	.643	.644	.568	.709	.691	.598	.778	.804	.714	.775	.665	.698
Algeria.....	.128	.080	.117	.136	.096	.117	.104	.180	.111	.142	.097	.141
Libya.....	.515	.564	.451	.573	.595	.481	.611	.577	.541	.556	.534	.558
Nigeria.....	.000	.000	.000	.000	.000	.000	.063	.047	.062	.076	.034	.000
Imports from OPEC-South America												
Total.....	.006	.013	.004	.012	.006	.010	.018	.014	.019	.010	.003	.018
Venezuela.....	.006	.013	.004	.012	.006	.010	.018	.014	.019	.010	.003	.018
Imports from OPEC-Far East												
Total.....	.000	.000	.000	.000	.000	.009	.000	.000	.000	.000	.000	.000
Indonesia.....	.000	.000	.000	.000	.000	.009	.000	.000	.000	.000	.000	.000

<sup>1/</sup> OPEC=Organization of Petroleum Exporting Countries. See Appendix A for countries in this group.

<sup>2/</sup> The Persian Gulf countries are all members of OPEC, except for Bahrain.

Notes: •Imports include crude oil, natural gas liquids, and refined products, and are on a direct basis. •Negative numbers represent net exports. •A dash (-) indicates no trade. •Zeroes (.000) indicate net imports of less than 0.0005 million barrels per day. •See Section 4 for annual data.

Sources: See end of Section 3.

Table 3.13 OECD Imports from Iraq (Most Recent 12 Months)  
(Million Barrels per Day)

	2000								2001			
	May	June	July	August	Sept	Oct	Nov	Dec	Jan	Feb	Mar	April
Total.....	1.319	1.998	1.490	1.866	1.794	1.584	1.941	1.065	0.606	0.725	1.280	1.770
United States <sup>1</sup> /....	.438	.830	.762	.765	.765	.653	.585	.528	.294	.236	.566	.862
Canada.....	.000	.071	.090	.060	.053	.018	.111	.000	.119	.077	.115	.000
OECD Europe <sup>2</sup> /.....	.867	.949	.523	.838	.867	.701	.985	.409	.149	.404	.503	.836
Main European Importers												
France.....	.175	.190	.183	.181	.099	.152	.155	.162	.005	.141	.065	.068
Germany <sup>3</sup> /.....	.014	.007	.012	.008	.000	.000	.005	.000	.000	.000	.000	.000
Italy.....	.197	.199	.137	.158	.207	.170	.192	.065	.055	.168	.185	.122
Spain.....	.164	.154	.071	.136	.131	.130	.121	.000	.000	.000	.067	.170
Netherlands.....	.133	.184	.019	.071	.081	.032	.176	.013	.005	.011	.075	.226
Smaller European Importers												
Austria.....	.024	.047	.022	.034	.022	.011	.028	.045	.023	.041	.031	.020
Belgium.....	.045	.018	.015	.034	.131	.070	.096	.032	.032	.010	.000	.000
Greece.....	.034	.035	.000	.032	.054	.000	.068	.036	.029	.033	.061	.068
Portugal.....	.000	.000	.000	.033	.035	.000	.033	.031	.000	.000	.000	.000
Sweden.....	.000	.000	.000	.000	.013	.000	.067	.000	.000	.000	.000	.000
Switzerland.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
Turkey.....	.082	.115	.064	.151	.093	.135	.044	.024	.000	.000	.019	.162
Japan.....	.000	.067	.000	.108	.064	.191	.205	.110	.000	.000	.000	.000

<sup>1</sup>/ U.S. geographic coverage is the 50 States and District of Columbia.

<sup>2</sup>/ "OECD Europe" consists of Austria, Belgium, Denmark, Finland, France, Greece, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, Turkey, the United Kingdom, and Germany.

<sup>3</sup>/ Through December 1990, the data for Germany are for the former West Germany only. Beginning with January 1991, the data for Germany are for the unified Germany, i.e., the former East Germany and West Germany.

NA=Not available.

Notes: •Imports include crude oil, natural gas liquids, and refined products, and are on a direct basis. •OECD=Organization for Economic Cooperation and Development. See Appendix A for countries in this group. •Negative numbers represent net exports. •A dash (-) indicates no trade. •Zeroes (.000) indicate net imports of less than 0.0005 million barrels per day. •See Section 4 for annual data.

Sources: See end of Section 3.

**Table 3.14 OECD Imports from Kuwait (Most Recent 12 Months)**  
(Million Barrels per Day)

	2000								2001			
	May	June	July	August	Sept	Oct	Nov	Dec	Jan	Feb	Mar	April
Total.....	0.883	1.049	0.913	1.212	1.200	1.180	1.137	1.177	1.167	1.248	1.242	0.902
United States <sup>1</sup> /.....	.170	.210	.264	.405	.352	.337	.248	.344	.242	.280	.302	.242
Canada.....	.000	.000	.001	.001	.001	.000	.000	.000	.000	.000	.000	.000
OECD Europe <sup>2</sup> /.....	.201	.349	.248	.249	.391	.208	.352	.184	.331	.244	.297	.192
Main European Importers												
France.....	.064	.040	.039	.000	.048	.000	.069	.006	.000	.005	.039	.017
Germany <sup>3</sup> /.....	.020	.010	.010	.024	.010	.020	.011	.006	.005	.000	.000	.000
Italy.....	.030	.031	.000	.032	.031	.063	.031	.000	.072	.045	.040	.031
Spain.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
Netherlands.....	.049	.159	.180	.178	.286	.078	.226	.147	.191	.145	.192	.117
European Net Exporters												
United Kingdom....	.010	.057	.009	.000	.005	.026	.008	.015	.018	.018	.010	.011
Smaller European Importers												
Belgium.....	.000	.000	.000	.000	.000	.000	.000	.000	.016	.000	.000	.000
Denmark.....	.008	.014	.010	.000	.000	.000	.000	.000	.006	.004	.000	.000
Finland.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
Greece.....	.005	.005	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
Sweden.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
Turkey.....	.015	.032	.000	.015	.010	.021	.005	.010	.022	.027	.016	.016
Japan.....	.510	.488	.410	.576	.441	.633	.535	.655	.595	.709	.640	.466

<sup>1</sup>/ U.S. geographic coverage is the 50 States and District of Columbia.

<sup>2</sup>/ "OECD Europe" consists of Austria, Belgium, Denmark, Finland, France, Greece, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, Turkey, the United Kingdom, and Germany.

<sup>3</sup>/ Through December 1990, the data for Germany are for the former West Germany only. Beginning with January 1991, the data for Germany are for the unified Germany, i.e., the former East Germany and West Germany.

NA=Not available.

Notes: •Imports include crude oil, natural gas liquids, and refined products, and are on a direct basis. •OECD=Organization for Economic Cooperation and Development. See Appendix A for countries in this group. •Negative numbers represent net exports. •A dash (-) indicates no trade. •Zeroes (.000) indicate net imports of less than 0.0005 million barrels per day. •See Section 4 for annual data.

Sources: See end of Section 3.

## Sources for Section 3 (International Oil Imports)

### Oil Imports

United States: • Energy Information Administration (EIA), Petroleum Supply Annual 2000 and Petroleum Supply Monthly, July 2001. Other OECD Countries: • Organization for Economic Cooperation and Development (OECD), Quarterly Oil Statistics and Energy Balances, various issues. • OECD, Monthly Oil Statistics data base, 2000-2001.

## **4. Historical Oil Data Series 1970-2000**

Table 4.1a World Crude Oil Production (Including Lease Condensate), 1970-2000  
(Thousand Barrels per Day)

	Algeria	Indo- nesia	Iran	Iraq	Kuwait <sup>1</sup> / <sub></sub>	Libya	Nigeria	Qatar	Saudi Arabia <sup>1</sup> / <sub></sub>	United Arab Emirates	Vene- zuela	Total OPEC
1970 Average.....	1,029	854	3,829	1,549	2,990	3,318	1,083	362	3,799	780	3,708	23,301
1971 Average.....	785	892	4,540	1,694	3,197	2,761	1,531	431	4,769	1,060	3,549	25,209
1972 Average.....	1,062	1,081	5,023	1,466	3,283	2,239	1,816	482	6,016	1,203	3,220	26,891
1973 Average.....	1,097	1,339	5,861	2,018	3,020	2,175	2,054	570	7,596	1,533	3,366	30,629
1974 Average.....	1,009	1,375	6,022	1,971	2,546	1,521	2,255	518	8,480	1,679	2,976	30,351
1975 Average.....	983	1,307	5,350	2,262	2,084	1,480	1,783	438	7,075	1,664	2,346	26,771
1976 Average.....	1,075	1,504	5,883	2,415	2,145	1,933	2,067	497	8,577	1,936	2,294	30,327
1977 Average.....	1,152	1,686	5,663	2,348	1,969	2,063	2,085	445	9,245	1,999	2,238	30,893
1978 Average.....	1,231	1,635	5,242	2,563	2,131	1,983	1,897	487	8,301	1,831	2,165	29,464
1979 Average.....	1,224	1,591	3,168	3,477	2,500	2,092	2,302	508	9,532	1,831	2,356	30,581
1980 Average.....	1,106	1,577	1,662	2,514	1,656	1,787	2,055	472	9,900	1,709	2,168	26,606
1981 Average.....	1,002	1,605	1,380	1,000	1,125	1,140	1,433	405	9,815	1,474	2,102	22,481
1982 Average.....	987	1,339	2,214	1,012	823	1,150	1,295	330	6,483	1,250	1,895	18,778
1983 Average.....	968	1,343	2,440	1,005	1,064	1,105	1,241	295	5,086	1,149	1,801	17,497
1984 Average.....	1,014	1,412	2,174	1,209	1,157	1,087	1,388	394	4,663	1,146	1,798	17,442
1985 Average.....	1,037	1,325	2,250	1,433	1,023	1,059	1,495	301	3,388	1,193	1,677	16,181
1986 Average.....	945	1,390	2,035	1,690	1,419	1,034	1,467	308	4,870	1,330	1,787	18,275
1987 Average.....	1,048	1,343	2,298	2,079	1,585	972	1,341	293	4,265	1,541	1,752	18,517
1988 Average.....	1,040	1,342	2,240	2,685	1,492	1,175	1,450	346	5,086	1,565	1,903	20,324
1989 Average.....	1,095	1,409	2,810	2,897	1,783	1,150	1,716	380	5,064	1,860	1,907	22,071
1990 Average.....	1,175	1,462	3,088	2,040	1,175	1,375	1,810	406	6,410	2,117	2,137	23,195
1991 Average.....	1,230	1,592	3,312	305	190	1,483	1,892	395	8,115	2,386	2,375	23,275
1992 Average.....	1,214	1,504	3,429	425	1,058	1,433	1,943	423	8,332	2,266	2,371	24,398
1993 Average.....	1,162	1,511	3,540	512	1,852	1,361	1,960	413	8,198	2,159	2,450	25,119
1994 Average.....	1,180	1,510	3,618	553	2,025	1,378	1,931	415	8,120	2,193	2,588	25,510
1995 Average.....	1,202	1,503	3,643	560	2,057	1,390	1,993	442	8,231	2,233	2,750	26,004
1996 Average.....	1,242	1,547	3,686	579	2,062	1,401	2,001	510	8,218	2,278	2,938	26,461
1997 Average.....	1,277	1,520	3,664	1,155	2,007	1,446	2,132	550	8,362	2,316	3,280	27,710
1998 Average.....	1,246	1,518	3,634	2,150	2,085	1,390	2,153	696	8,389	2,345	3,167	28,774
1999 Average.....	1,202	1,472	3,557	2,508	1,898	1,319	2,130	665	7,833	2,169	2,826	27,579
2000 Average P.....	1,239	1,466	3,719	2,571	2,126	1,410	2,144	737	8,404	2,348	2,949	29,113

<sup>1</sup>/ Includes about one-half of the production in the Kuwait-Saudi Arabia Neutral Zone from 1970 through July 1990 and beginning again in June 1991. Kuwaiti Neutral Zone output was discontinued following Iraq's invasion of Kuwait on August 2, 1990, but was resumed in June 1991. From August 1990 through May 1991, all production in the Neutral Zone was included in the data for Saudi Arabia. Data for Saudi Arabia include approximately 150,000 barrels per day from the Abu Safah field, produced on behalf of Bahrain.

P=Preliminary.

Notes: •OPEC=Organization of Petroleum Exporting Countries.

Sources: See end of Section 4.

Table 4.1b World Crude Oil Production (Including Lease Condensate), 1970-2000  
(Thousand Barrels per Day)

	Norway	United Kingdom	North Sea/ UK	Angola	Argentina	Australia	Brazil	Canada	China	Colombia	Ecuador
1970 Average.....	0	2	0	112	393	178	167	1,263	600	219	4
1971 Average.....	6	2	6	93	423	309	174	1,348	780	214	4
1972 Average.....	33	2	35	140	433	327	167	1,532	900	196	78
1973 Average.....	32	2	36	162	420	369	169	1,798	1,090	184	209
1974 Average.....	35	2	38	169	414	388	176	1,551	1,315	168	177
1975 Average.....	189	12	202	165	395	409	177	1,430	1,490	157	161
1976 Average.....	279	245	525	108	398	426	167	1,314	1,670	146	188
1977 Average.....	280	768	1,055	194	431	431	161	1,321	1,874	138	183
1978 Average.....	356	1,082	1,446	131	453	432	160	1,316	2,082	131	202
1979 Average.....	403	1,568	1,976	147	473	441	166	1,500	2,122	124	214
1980 Average.....	528	1,622	2,151	150	491	380	182	1,435	2,114	126	204
1981 Average.....	501	1,811	2,322	130	496	394	213	1,285	2,012	125	211
1982 Average.....	520	2,065	2,617	122	491	370	260	1,271	2,045	141	211
1983 Average.....	614	2,291	2,965	177	491	416	339	1,356	2,120	152	237
1984 Average.....	697	2,480	3,250	208	478	492	475	1,438	2,296	168	258
1985 Average.....	788	2,530	3,417	231	460	575	564	1,471	2,505	176	281
1986 Average.....	870	2,539	3,547	282	434	520	572	1,474	2,620	305	293
1987 Average.....	1,022	2,406	3,584	360	428	547	566	1,535	2,690	385	174
1988 Average.....	1,158	2,232	3,540	452	449	538	554	1,616	2,730	378	302
1989 Average.....	1,554	1,802	3,515	455	460	490	596	1,560	2,757	403	279
1990 Average.....	1,704	1,820	3,667	475	483	575	631	1,553	2,774	440	285
1991 Average.....	1,890	1,797	3,811	500	485	545	630	1,548	2,835	419	299
1992 Average.....	2,229	1,825	4,182	526	553	535	626	1,605	2,845	433	321
1993 Average.....	2,350	1,915	4,403	509	594	503	643	1,679	2,890	456	344
1994 Average.....	2,521	2,375	5,058	536	650	536	671	1,746	2,939	450	365
1995 Average.....	2,768	2,489	5,400	646	715	562	695	1,805	2,990	585	392
1996 Average.....	3,104	2,568	5,822	709	756	570	795	1,837	3,131	623	396
1997 Average.....	3,143	2,518	5,830	714	834	588	841	1,922	3,200	652	388
1998 Average.....	3,017	2,616	5,806	735	847	544	969	1,981	3,198	733	375
1999 Average.....	3,018	2,684	5,958	766	802	539	1,132	1,907	3,195	816	373
2000 Average P.....	3,197	2,475	6,013	746	761	722	1,212	1,977	3,249	691	395

1/ North Sea includes the United Kingdom Offshore, Norway, Denmark, Netherlands Offshore, and Germany Offshore.

P=Preliminary.

Sources: See end of Section 4.

Table 4.1c World Crude Oil Production (Including Lease Condensate), 1970-2000  
(Thousand Barrels per Day)

	Egypt	Gabon	India	Malaysia	Mexico	Oman	Russia	Former U.S.S.R.	Syria	United States	Other <sup>1/</sup>	World
1970 Average.....	326	109	144	18	487	332	--	6,985	80	9,637	1,529	45,886
1971 Average.....	293	115	143	69	486	294	--	7,475	100	9,463	1,518	48,518
1972 Average.....	231	125	156	93	505	282	--	7,890	124	9,441	1,592	51,138
1973 Average.....	165	150	147	91	465	293	--	8,324	105	9,208	1,667	55,679
1974 Average.....	150	202	156	81	571	290	--	8,912	124	8,774	1,711	55,716
1975 Average.....	235	223	165	98	705	343	--	9,523	170	8,375	1,636	52,828
1976 Average.....	330	223	175	165	831	366	--	10,060	175	8,132	1,620	57,344
1977 Average.....	415	222	199	184	981	341	--	10,603	188	8,245	1,655	59,707
1978 Average.....	485	209	226	217	1,209	315	--	11,105	170	8,707	1,706	60,158
1979 Average.....	525	203	245	283	1,461	295	--	11,384	166	8,552	1,821	62,674
1980 Average.....	595	175	182	283	1,936	282	--	11,706	164	8,597	1,842	59,600
1981 Average.....	598	151	325	264	2,313	319	--	11,850	166	8,572	1,859	56,076
1982 Average.....	670	156	390	306	2,748	324	--	11,912	160	8,649	1,892	53,481
1983 Average.....	727	157	480	365	2,689	375	--	11,972	167	8,688	1,946	53,256
1984 Average.....	822	157	519	440	2,780	414	--	11,861	170	8,879	2,015	54,489
1985 Average.....	887	172	620	440	2,745	498	--	11,585	178	8,971	2,124	53,982
1986 Average.....	813	166	630	504	2,435	560	--	11,895	194	8,680	2,166	56,227
1987 Average.....	896	155	609	497	2,548	582	--	12,050	230	8,349	2,120	56,666
1988 Average.....	848	159	635	540	2,512	617	--	12,053	265	8,140	2,235	58,737
1989 Average.....	865	208	700	585	2,520	641	--	11,715	340	7,613	2,249	59,863
1990 Average.....	873	270	660	619	2,553	685	--	10,975	388	7,355	2,253	60,566
1991 Average.....	874	294	615	646	2,680	700	--	9,992	492	7,417	2,274	60,207
1992 Average.....	881	298	561	653	2,669	740	7,632	--	481	7,171	3,229	60,213
1993 Average.....	890	313	534	640	2,673	776	6,730	--	554	6,847	3,279	60,236
1994 Average.....	896	329	590	645	2,685	810	6,135	--	560	6,662	3,380	60,991
1995 Average.....	920	365	703	682	2,618	851	5,995	--	575	6,560	3,414	62,335
1996 Average.....	922	368	651	695	2,855	883	5,850	--	582	6,465	3,490	63,711
1997 Average.....	856	370	675	700	3,023	904	5,920	--	561	6,452	3,719	65,690
1998 Average.....	834	352	661	720	3,070	900	5,854	--	553	6,252	3,936	66,921
1999 Average.....	852	340	653	693	2,906	887	6,079	--	538	5,881	4,231	65,870
2000 Average P....	710	330	646	690	3,012	940	6,479	--	523	5,822	4,511	68,200

<sup>1/</sup> Other is a calculated total derived from the difference between "World" and the sum of production in "Total OPEC" (Table 1.1a) and all other countries listed (Tables 1.1b and 1.1c). The total "North Sea" is not subtracted from the world total, though Norway and the United Kingdom have been subtracted.

-- = Not applicable. P=Preliminary.

Sources: See end of Section 4.

Table 4.2 OPEC Crude Oil Production (Excluding Condensate), 1980-2000  
(Thousand Barrels per Day)

	Algeria	Indo- nesia	Iran	Iraq	Kuwait <sup>1/</sup>	Libya	Nigeria	Qatar	Saudi Arabia <sup>1/</sup>	United Arab Emirates	Vene- zuela	Total OPEC
1980 Average...	1,006	1,497	1,662	2,514	1,656	1,787	2,045	472	9,900	1,704	2,147	26,390
1981 Average...	802	1,513	1,380	1,000	1,125	1,140	1,423	405	9,815	1,469	2,083	22,155
1982 Average...	712	1,247	2,214	1,012	823	1,150	1,285	330	6,483	1,215	1,878	18,349
1983 Average...	648	1,245	2,440	1,005	1,064	1,105	1,231	295	5,086	1,109	1,768	16,996
1984 Average...	694	1,279	2,174	1,209	1,157	1,087	1,368	394	4,663	1,091	1,689	16,805
1985 Average...	702	1,181	2,250	1,433	1,023	1,059	1,475	301	3,388	1,133	1,558	15,503
1986 Average...	600	1,257	2,035	1,690	1,419	1,034	1,447	308	4,870	1,270	1,645	17,575
1987 Average...	648	1,189	2,298	2,079	1,585	972	1,291	293	4,265	1,441	1,587	17,648
1988 Average...	640	1,177	2,240	2,685	1,492	1,175	1,400	346	5,086	1,465	1,715	19,421
1989 Average...	690	1,231	2,810	2,897	1,783	1,150	1,666	380	5,064	1,783	1,747	21,201
1990 Average...	765	1,281	3,088	2,040	1,175	1,375	1,755	406	6,410	2,066	2,100	22,461
1991 Average...	800	1,410	3,312	305	190	1,483	1,832	395	8,115	2,326	2,338	22,506
1992 Average...	772	1,326	3,429	425	1,058	1,433	1,820	423	8,332	2,206	2,334	23,558
1993 Average...	747	1,327	3,540	512	1,852	1,361	1,835	413	8,198	2,109	2,410	24,304
1994 Average...	750	1,334	3,583	548	2,025	1,378	1,821	380	8,120	2,113	2,542	24,594
1995 Average...	767	1,343	3,608	555	2,057	1,390	1,878	407	8,231	2,148	2,710	25,094
1996 Average...	812	1,367	3,651	574	2,062	1,401	1,885	475	8,218	2,198	2,898	25,541
1997 Average...	847	1,355	3,629	1,150	2,007	1,446	2,017	515	8,362	2,236	3,240	26,804
1998 Average...	816	1,338	3,599	2,145	2,085	1,390	2,043	661	8,389	2,265	3,127	27,858
1999 Average ..	772	1,324	3,522	2,503	1,898	1,319	2,020	630	7,833	2,089	2,776	26,686
2000 Average P.	809	1,286	3,684	2,566	2,126	1,410	2,034	702	8,404	2,268	2,899	28,188

<sup>1/</sup> Includes about one-half of the production in the Kuwait-Saudi Arabia Neutral Zone from 1980 through July 1990 and beginning again in June 1991. Kuwaiti Neutral Zone output was discontinued following Iraq's invasion of Kuwait on August 2, 1990, but was resumed in June 1991. From August 1990 through May 1991, all production in the Neutral Zone was included in the data for Saudi Arabia. Data for Saudi Arabia include approximately 150,000 barrels per day from the Abu Safah field, produced on behalf of Bahrain.

P=Preliminary.

Note: OPEC=Organization of Petroleum Exporting Countries. See Appendix A for Countries in this group.

Sources: See end of Section 4.

**Table 4.3 World Natural Gas Plant Liquids Production, 1970-2000**  
(Thousand Barrels per Day)

	Algeria	Canada	Mexico	Saudi Arabia	Russia	Former USSR	United States <sup>1/</sup>	Persian Gulf <sup>2/</sup>	OAPEC <sup>3/</sup>	OPEC <sup>3/</sup>	World
1970 Average.....	3	200	58	50	--	120	1,660	119	137	205	2,383
1971 Average.....	4	234	59	50	--	135	1,693	138	147	243	2,508
1972 Average.....	4	293	61	55	--	155	1,744	155	159	275	2,676
1973 Average.....	9	314	75	90	--	170	1,738	191	196	324	2,785
1974 Average.....	12	314	80	130	--	190	1,688	231	219	347	2,789
1975 Average.....	20	309	80	140	--	205	1,633	246	252	372	2,790
1976 Average.....	24	289	95	185	--	220	1,603	291	313	442	2,865
1977 Average.....	19	290	105	215	--	235	1,618	335	366	482	2,982
1978 Average.....	25	281	115	250	--	255	1,567	410	447	566	3,078
1979 Average.....	30	331	150	303	--	270	1,584	458	535	637	3,285
1980 Average.....	36	331	193	369	--	285	1,573	534	618	732	3,444
1981 Average.....	49	330	241	433	--	300	1,609	599	691	825	3,625
1982 Average.....	58	318	255	430	--	315	1,550	612	721	842	3,626
1983 Average.....	56	309	265	330	--	330	1,559	552	655	780	3,635
1984 Average.....	105	336	257	355	--	340	1,630	604	761	869	3,869
1985 Average.....	120	337	271	375	--	350	1,609	645	808	892	3,938
1986 Average.....	120	328	352	385	--	440	1,551	700	860	969	4,150
1987 Average.....	140	367	338	418	--	430	1,595	721	900	1,006	4,279
1988 Average.....	120	381	370	499	--	450	1,625	808	979	1,077	4,481
1989 Average.....	130	410	384	503	--	425	1,546	851	1,041	1,188	4,502
1990 Average.....	130	426	428	620	--	425	1,559	930	1,107	1,281	4,632
1991 Average.....	140	431	457	680	--	420	1,659	931	1,113	1,299	4,827
1992 Average.....	140	460	454	713	230	--	1,697	1,003	1,185	1,364	4,974
1993 Average.....	145	506	459	704	220	--	1,736	1,040	1,238	1,435	5,180
1994 Average.....	140	529	461	698	200	--	1,727	1,071	1,267	1,465	5,292
1995 Average.....	145	581	447	701	180	--	1,762	1,106	1,301	1,506	5,485
1996 Average.....	150	596	423	697	185	--	1,830	1,082	1,295	1,501	5,576
1997 Average.....	160	636	388	712	195	--	1,817	1,152	1,384	1,589	5,721
1998 Average.....	155	651	424	755	220	--	1,759	1,225	1,449	1,662	5,874
1999 Average.....	190	653	439	666	231	--	1,850	1,152	1,411	1,648	5,984
2000 Average P....	190	699	438	706	232	--	1,911	1,206	1,463	1,706	6,168

<sup>1/</sup> U.S. geographic coverage is the 50 States and the District of Columbia.

<sup>2/</sup> See Appendix A for countries in this group.

<sup>3/</sup> OAPEC=Organization of Arab Petroleum Exporting Countries. OPEC=Organization of Petroleum Exporting Countries. See Appendix A for countries in these groups.

P=Preliminary.

Sources: See end of Section 4.

Table 4.4 World Oil Supply, 1970-2000  
(Thousand Barrels per Day)

	United States <sup>1/</sup>	Persian Gulf <sup>2/</sup>	OAPEC <sup>3/</sup>	OPEC <sup>3/</sup>	World
1970 Average.....	11,673	13,541	14,571	23,567	48,986
1971 Average.....	11,554	15,940	15,427	25,514	51,766
1972 Average.....	11,601	17,734	16,451	27,228	54,574
1973 Average.....	11,428	20,895	18,656	31,015	59,300
1974 Average.....	10,978	21,550	18,399	30,762	59,391
1975 Average.....	10,505	19,223	16,831	27,218	56,511
1976 Average.....	10,251	21,847	19,563	30,841	61,121
1977 Average.....	10,437	22,098	20,372	31,443	63,665
1978 Average.....	10,820	21,067	19,819	30,120	64,225
1979 Average.....	10,707	21,569	22,575	31,300	66,973
1980 Average.....	10,809	18,541	20,715	27,419	64,139
1981 Average.....	10,739	15,894	17,619	23,393	60,746
1982 Average.....	10,783	12,815	13,786	19,702	58,215
1983 Average.....	10,788	11,676	12,416	18,352	58,046
1984 Average.....	11,107	11,433	12,619	18,389	59,638
1985 Average.....	11,192	10,320	11,498	17,151	59,249
1986 Average.....	10,905	12,441	13,653	19,310	61,758
1987 Average.....	10,648	12,869	13,992	19,589	62,418
1988 Average.....	10,473	14,310	15,662	21,465	64,690
1989 Average.....	9,880	15,733	16,658	23,323	65,877
1990 Average.....	9,677	16,249	17,232	24,536	66,743
1991 Average.....	9,883	15,704	16,747	24,625	66,617
1992 Average.....	9,768	17,010	17,871	25,818	66,941
1993 Average.....	9,602	17,792	18,505	26,610	67,335
1994 Average.....	9,413	18,072	18,745	27,031	68,246
1995 Average.....	9,400	18,351	19,069	27,566	69,868
1996 Average.....	9,445	18,486	19,237	28,018	71,397
1997 Average.....	9,461	19,284	20,067	29,355	73,658
1998 Average.....	9,278	20,599	21,282	30,492	75,124
1999 Average.....	8,993	19,856	20,542	29,283	74,184
2000 Average P.....	9,058	21,183	21,672	30,874	76,858

<sup>1/</sup> U.S. geographic coverage is the 50 States and the District of Columbia.

<sup>2/</sup> See Appendix A for countries in this group.

<sup>3/</sup> OAPEC=Organization of Arab Petroleum Exporting Countries. OPEC=Organization of Petroleum Exporting Countries. See Appendix A for countries in these groups.

P=Preliminary.

Note: Oil Supply includes crude oil, natural gas plant liquids, other liquids, and refinery gain. See Explanatory Note 1 in Appendix B.

Sources: See end of Section 4.

Table 4.5 Oil Stocks in OECD Countries, End of Year  
(Million Barrels)

	France	Italy	Germany <sup>1/</sup>	United Kingdom	OECD Europe <sup>2/</sup>	United States <sup>3/</sup>	Canada	Japan	Other <sup>4/</sup>	Total OECD	
1973	December.....	201	152	181	156	1,070	1,008	140	303	67	2,588
1974	December.....	249	167	213	191	1,227	1,074	145	370	64	2,880
1975	December.....	225	143	187	165	1,154	1,133	174	375	67	2,903
1976	December.....	234	143	208	165	1,205	1,112	153	380	68	2,918
1977	December.....	239	161	225	148	1,268	1,312	167	409	68	3,224
1978	December.....	201	154	238	157	1,219	1,278	144	413	68	3,122
1979	December.....	226	163	272	169	1,353	1,341	150	460	75	3,379
1980	December.....	243	170	319	168	1,464	1,392	164	495	72	3,587
1981	December.....	214	167	297	143	1,337	1,484	161	482	67	3,531
1982	December.....	193	179	272	125	1,258	1,430	136	484	68	3,376
1983	December.....	153	149	249	118	1,142	1,454	121	470	68	3,255
1984	December.....	152	159	239	112	1,130	1,556	128	479	69	3,362
1985	December.....	139	157	233	123	1,092	1,519	113	494	66	3,284
1986	December.....	127	155	252	124	1,133	1,593	111	509	72	3,418
1987	December.....	127	169	259	121	1,130	1,607	126	540	71	3,474
1988	December.....	140	155	266	112	1,118	1,597	116	538	71	3,440
1989	December.....	138	164	271	118	1,133	1,581	114	577	71	3,476
1990	December.....	140	172	265	112	1,163	1,621	121	590	73	3,568
1991	December.....	153	160	288	119	1,181	1,617	119	606	65	3,588
1992	December.....	146	174	310	113	1,219	1,592	107	603	67	3,588
1993	December.....	158	163	309	118	1,221	1,647	105	618	69	3,661
1994	December.....	158	164	312	115	1,240	1,653	119	645	69	3,726
1995	December.....	159	162	301	107	1,228	1,563	109	630	71	3,601
1996	December.....	158	152	300	108	1,256	1,507	103	651	74	3,591
1997	December.....	164	147	298	104	1,255	1,560	115	685	74	3,689
1998	December.....	161	153	321	108	1,303	1,647	118	649	66	3,784
1999	December.....	163	148	287	104	1,232	1,493	108	629	69	3,530
2000	December P....	174	157	271	103	1,259	1,468	112	634	70	3,542

<sup>1/</sup> Data through December 1990 are for the former West Germany. Beginning with January 1991, the data for Germany are for the unified Germany, i.e., the former East Germany and West Germany.

<sup>2/</sup> "OECD Europe" consists of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, Turkey, and the United Kingdom.

<sup>3/</sup> U.S. geographic coverage is the 50 States and the District of Columbia. In the United States in January 1975, 1981, and 1983, numerous respondents were added to bulk terminal and pipeline surveys affecting subsequent stocks reported. Using the new basis, the end-of-year U.S. stocks, in million barrels, would have been 1,121 in 1974, 1,425 in 1980, and 1,461 in 1982.

<sup>4/</sup> "Other" consists of Australia, New Zealand, and the U.S. Territories.

P=Preliminary.

Note: Oil Stocks - See Explanatory Note 2 in Appendix B.

Sources: See end of Section 4.

Table 4.6 World Oil Demand, 1970-2000  
(Thousand Barrels per Day)

	France	Italy	Germany <sup>1/</sup>	United Kingdom	OECD Europe <sup>2/</sup>	United States <sup>3/</sup>	Canada	Japan	Other <sup>4/</sup>	OECD Excluding East Germany	East Germany	OECD Including East Germany	World Total
1970 Average...	1,937	1,710	2,607	2,096	12,404	14,697	1,516	3,817	836	33,270	223	33,493	46,808
1971 Average...	2,115	1,838	2,702	2,141	13,005	15,213	1,565	4,142	831	34,755	238	34,993	49,416
1972 Average...	2,322	1,947	2,859	2,284	13,934	16,367	1,664	4,363	948	37,275	270	37,545	53,094
1973 Average...	2,601	2,068	3,055	2,341	14,925	17,308	1,729	4,949	988	39,900	282	40,182	57,237
1974 Average...	2,447	2,004	2,748	2,210	13,988	16,653	1,779	4,864	1,095	38,379	307	38,686	56,677
1975 Average...	2,252	1,855	2,650	1,911	13,217	16,322	1,779	4,621	1,041	36,980	307	37,287	56,198
1976 Average...	2,420	1,971	2,877	1,892	14,124	17,461	1,818	4,837	1,119	39,358	329	39,687	59,673
1977 Average...	2,294	1,897	2,865	1,905	13,916	18,431	1,850	4,880	1,160	40,237	347	40,584	61,826
1978 Average...	2,408	1,952	2,927	1,938	14,290	18,847	1,902	4,945	1,204	41,187	363	41,550	64,158
1979 Average...	2,463	2,039	3,003	1,971	14,667	18,513	1,971	5,050	1,178	41,379	369	41,748	65,220
1980 Average...	2,256	1,934	2,707	1,725	13,634	17,056	1,873	4,960	1,072	38,595	375	38,970	63,067
1981 Average...	2,023	1,874	2,449	1,590	12,515	16,058	1,768	4,848	1,080	36,269	355	36,624	60,903
1982 Average...	1,880	1,781	2,372	1,590	12,053	15,296	1,578	4,582	1,008	34,517	371	34,888	59,503
1983 Average...	1,835	1,750	2,324	1,531	11,765	15,231	1,448	4,395	953	33,793	336	34,129	58,739
1984 Average...	1,754	1,646	2,322	1,849	11,736	15,726	1,472	4,576	990	34,500	340	34,840	59,831
1985 Average...	1,775	1,717	2,338	1,634	11,681	15,726	1,504	4,384	976	34,271	362	34,633	60,091
1986 Average...	1,772	1,738	2,498	1,649	12,102	16,281	1,506	4,439	951	35,279	362	35,641	61,759
1987 Average...	1,789	1,855	2,424	1,603	12,255	16,665	1,548	4,484	959	35,911	342	36,253	62,999
1988 Average...	1,797	1,836	2,422	1,697	12,427	17,283	1,693	4,752	939	37,093	322	37,415	64,819
1989 Average...	1,857	1,930	2,280	1,738	12,531	17,325	1,733	4,983	998	37,570	300	37,871	65,917
1990 Average...	1,818	1,872	2,382	1,752	12,629	16,988	1,690	5,140	1,027	37,475	282	37,758	65,977
1991 Average...	1,935	1,863	2,828	1,801	13,391	16,714	1,622	5,284	1,056	--	--	38,067	66,567
1992 Average...	1,926	1,937	2,843	1,803	13,605	17,033	1,643	5,446	1,051	--	--	38,778	66,762
1993 Average...	1,875	1,852	2,900	1,815	13,523	17,237	1,688	5,401	1,117	--	--	38,966	66,996
1994 Average...	1,833	1,841	2,879	1,837	13,597	17,718	1,727	5,674	1,171	--	--	39,887	68,283
1995 Average...	1,896	2,048	2,875	1,845	14,120	17,725	1,755	5,711	1,265	--	--	40,575	69,866
1996 Average...	1,935	2,058	2,911	1,845	14,269	18,309	1,797	5,867	1,190	--	--	41,432	71,404
1997 Average...	1,954	2,045	2,903	1,781	14,412	18,620	1,842	5,711	1,221	--	--	41,807	R73,017
1998 Average...	2,031	2,072	2,916	1,765	14,699	18,917	1,859	5,512	1,271	--	--	42,259	R73,642
1999 Average...	2,027	1,975	2,822	1,717	14,508	19,519	1,933	5,572	1,305	--	--	42,837	74,905
2000 Average	P.R2,020	R1,884	R2,756	1,696	R14,373	19,701	1,975	5,490	1,330	--	--	R42,870	R75,567

<sup>1/</sup> Data through 1990 are for the former West Germany. Beginning with January 1991, the data for Germany are for the unified Germany, i.e., the former East Germany and West Germany.

<sup>2/</sup> "OECD Europe" consists of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, Turkey, and the United Kingdom.

<sup>3/</sup> U.S. geographic coverage is the 50 States and the District of Columbia.

<sup>4/</sup> "Other" consists of Australia, New Zealand, and the U.S. Territories.

P=Preliminary. R=Revised data. --=Not Applicable.

Note: The term Demand is used interchangeably with Consumption and Petroleum Products Supplied. See Appendix C for definition.

Sources: See end of Section 4.

Table 4.7 OECD Total Net Imports, 1990-2000  
(Million Barrels per Day)

	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
	Average										
Total.....	20.443	20.143	20.508	20.937	20.834	20.422	21.149	21.758	22.405	22.187	22.201
United States <sup>1/</sup> ....	7.161	6.626	6.938	7.618	8.054	7.886	8.498	9.158	9.764	9.912	10.419
Canada.....	-.429	-.486	-.553	-.594	-.632	-.763	-.812	-.829	-.917	-.804	-.838
OECD Europe <sup>2/</sup> .....	8.201	8.452	8.325	7.990	7.216	7.092	7.198	7.196	7.743	7.037	7.184
Main European Importers											
France.....	1.750	1.851	1.766	1.741	1.596	1.702	1.716	1.747	1.855	1.862	1.867
Germany <sup>3/</sup> .....	2.202	2.642	2.714	2.697	2.704	2.673	2.766	2.778	2.860	2.608	2.561
Italy.....	1.788	1.750	1.819	1.728	1.760	1.802	1.773	1.775	1.809	1.731	1.744
Netherlands.....	.668	.677	.699	.674	.706	.686	.748	.758	.765	.753	.859
Spain.....	.950	.937	.985	1.054	1.105	1.188	1.169	1.259	1.350	1.384	1.413
European Net Exporters											
Norway.....	-1.543	-1.825	-2.102	-2.255	-2.587	-2.795	-3.150	-3.176	-3.043	-3.027	-3.202
United Kingdom....	-.214	-.170	-.233	-.368	-.861	-.980	-.850	-.977	-1.026	-1.257	-1.063
Smaller European Importers											
Austria.....	.201	.210	.207	.203	.208	.194	.213	.221	.234	.229	.217
Belgium.....	.442	.498	.510	.496	.510	.488	.564	.581	.605	.549	.579
Denmark.....	.063	.046	.031	.022	.025	.038	.027	-.007	-.004	-.088	-.160
Ireland.....	.095	.094	.096	.101	.109	.115	.123	.133	.147	.165	.144
Finland.....	.208	.200	.185	.180	.231	.143	.178	.184	.208	.208	.223
Greece.....	.273	.293	.322	.323	.289	.339	.346	.356	.382	.352	.381
Iceland.....	.011	.012	.011	.014	.015	.015	.015	.016	.017	.018	.019
Luxembourg.....	.034	.039	.040	.039	.040	.036	.039	.040	.043	.044	.049
Portugal.....	.250	.256	.276	.269	.266	.287	.271	.292	.321	.340	.325
Sweden.....	.324	.308	.316	.330	.357	.351	.400	.365	.378	.347	.347
Switzerland.....	.273	.272	.276	.249	.261	.247	.258	.268	.277	.256	.249
Turkey.....	.425	.361	.407	.494	.484	.563	.594	.583	.565	.561	.629
Japan.....	5.239	5.237	5.413	5.415	5.711	5.662	5.736	5.762	5.352	5.463	5.486
Other OECD.....	.270	.314	.384	.507	.483	.546	.529	.471	.463	.579	-.050

<sup>1/</sup> U.S. geographic coverage is the 50 States and District of Columbia.

<sup>2/</sup> "OECD Europe" consists of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, Turkey, and the United Kingdom.

<sup>3/</sup> Data through 1990 are for the former West Germany.

Notes: •Imports include crude oil, natural gas liquids, and refined products, and are on a direct basis. •OECD=Organization for Economic Cooperation and Development. See Appendix A for countries in this group. •Negative numbers represent net exports.

•A dash (-) indicates no trade. •Zeroes (.000) indicate net imports of less than 0.0005 million barrels per day.

•Data for 1997 are preliminary.

Sources: See end of Section 4.

**Table 4.8 OECD Imports from OPEC, 1990-2000**  
(Million Barrels per Day)

	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
	Average										
Total.....	15.576	15.360	15.567	16.018	15.765	15.469	15.630	16.540	17.048	16.221	16.413
United States <sup>1</sup> /....	4.172	3.918	3.888	4.103	4.036	3.979	4.194	4.542	4.881	4.934	5.182
Canada.....	.199	.210	.210	.268	.285	.257	.261	.312	.297	.303	.311
OECD Europe <sup>2</sup> /.....	6.633	6.728	6.758	6.794	6.385	6.154	6.053	6.259	6.693	5.920	5.928
Main European Importers											
France.....	1.101	1.021	.932	1.006	.956	.911	.897	.899	1.029	.918	.883
Germany <sup>3</sup> /.....	.771	.859	.957	.948	.838	.711	.660	.645	.656	.597	.595
Italy.....	1.375	1.393	1.343	1.222	1.117	1.203	1.244	1.353	1.421	1.234	1.288
Netherlands.....	.850	.900	.914	.982	.906	.791	.779	.774	.849	.791	.711
Spain.....	.652	.700	.632	.582	.668	.781	.775	.789	.867	.814	.842
European Net Exporters											
Norway.....	.007	.014	.004	.005	.003	.003	.001	.003	.000	.001	.000
United Kingdom....	.406	.377	.390	.439	.306	.254	.234	.199	.213	.135	.161
Smaller European Importers											
Austria.....	.097	.108	.115	.128	.119	.057	.023	.130	.122	.107	.092
Belgium.....	.313	.362	.359	.359	.284	.276	.284	.292	.341	.222	.253
Denmark.....	.044	.006	.001	.006	.008	.022	.027	.031	.033	.030	.032
Ireland.....	.000	.000	.000	.000	.000	.000	.000	.000	-	-	-
Finland.....	.013	.029	.033	.007	.004	.004	.001	.006	.004	.000	.000
Greece.....	.340	.298	.346	.303	.266	.263	.280	.317	.352	.314	.317
Portugal.....	.166	.139	.152	.166	.227	.209	.177	.188	.184	.163	.159
Sweden.....	.073	.105	.116	.123	.126	.109	.091	.096	.100	.081	.081
Switzerland.....	.036	.052	.051	.063	.082	.083	.098	.096	.102	.101	.094
Turkey.....	.388	.365	.412	.452	.475	.477	.483	.442	.418	.413	.421
Japan.....	4.062	4.026	4.198	4.245	4.495	4.467	4.470	4.699	4.467	4.403	4.438
Other OECD.....	.510	.478	.512	.609	.563	.612	.653	.727	.710	.661	.554

1/ U.S. geographic coverage is the 50 States and District of Columbia.

2/ "OECD Europe" consists of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, Turkey, and the United Kingdom.

3/ Data through 1990 are for the former West Germany.

Notes: •Imports include crude oil, natural gas liquids, and refined products, and are on a direct basis. •OECD=Organization for Economic Cooperation and Development. OPEC=Organization of Petroleum Exporting Countries. See Appendix A for countries in these groups. •Negative numbers represent net exports. •A dash (-) indicates no trade. •Zeroes (.000) indicate net imports of less than 0.0005 million barrels per day. •Data for 1997 are preliminary.

Sources: See end of Section 4.

**Table 4.9 OECD Imports from Persian Gulf, 1990-2000**  
(Million Barrels per Day)

	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
	Average										
<b>Imports from Persian Gulf</b>											
Total.....	9.667	9.249	9.456	10.029	9.609	9.310	9.215	9.951	10.551	10.123	10.169
United States <sup>1/</sup> ...	1.961	1.835	1.774	1.775	1.722	1.563	1.594	1.747	2.131	2.459	2.483
Canada.....	.081	.084	.092	.105	.119	.070	.111	.120	.098	.089	.108
OECD Europe <sup>2/</sup> .....	3.908	3.660	3.666	4.048	3.506	3.365	3.171	3.469	3.953	3.301	3.241
<b>Main European Importers</b>											
France.....	.864	.708	.640	.757	.651	.647	.573	.617	.729	.629	.602
Germany <sup>3/</sup> .....	.217	.227	.215	.250	.217	.172	.145	.157	.163	.140	.129
Italy.....	.626	.595	.573	.548	.430	.494	.502	.583	.658	.570	.578
Netherlands.....	.647	.609	.650	.744	.662	.563	.566	.584	.676	.622	.529
Spain.....	.291	.281	.231	.287	.275	.324	.304	.359	.419	.339	.336
<b>European Net Exporters</b>											
Norway.....	.000	.011	.000	.000	.000	.000	.000	.000	.000	-	-
United Kingdom...	.250	.222	.220	.303	.174	.135	.102	.094	.108	.031	.086
<b>Smaller European Importers</b>											
Austria.....	.016	.021	.031	.036	.038	.035	.004	.045	.049	.045	.042
Belgium.....	.250	.279	.292	.291	.232	.252	.263	.259	.307	.182	.223
Denmark.....	.043	.004	.000	.002	.000	.000	.000	.002	.007	.002	.008
Finland.....	.011	.021	.023	.002	.002	.002	.000	.000	.001	.000	.000
Greece.....	.268	.219	.291	.253	.214	.223	.235	.282	.322	.279	.282
Portugal.....	.073	.067	.074	.050	.117	.107	.083	.106	.136	.110	.091
Sweden.....	.039	.064	.068	.088	.076	.068	.067	.073	.071	.060	.052
Switzerland.....	.007	.007	.007	.008	.012	.007	.006	.008	.009	.007	.007
Turkey.....	.307	.324	.349	.429	.405	.336	.320	.301	.296	.283	.276
Japan.....	3.394	3.370	3.586	3.721	3.946	3.979	4.025	4.304	4.132	4.051	4.124
Other OECD.....	.322	.300	.338	.381	.316	.334	.313	.311	.237	.223	.212

<sup>1/</sup> U.S. geographic coverage is the 50 States and District of Columbia.

<sup>2/</sup> "OECD Europe" consists of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, Turkey, and the United Kingdom.

<sup>3/</sup> Data through 1990 are for the former West Germany.

Notes: •Imports include crude oil, natural gas liquids, and refined products, and are on a direct basis. •OECD=Organization for Economic Cooperation and Development. See Appendix A for countries in this group. •"Persian Gulf" consists of Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and the United Arab Emirates. •Negative numbers represent net exports. •A dash (-) indicates no trade. •Zeroes (.000) indicate net imports of less than 0.0005 million barrels per day.

•Data for 1997 are preliminary.

Sources: See end of Section 4.

**Table 4.10 United States--Net Oil Imports, 1990-2000**  
(Million Barrels per Day)

	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
	Average										
Total Net Imports..	7.161	6.626	6.938	7.618	8.054	7.886	8.498	9.158	9.764	9.912	10.419
Imports from OPEC <sup>1/</sup>	4.172	3.918	3.888	4.103	4.036	3.979	4.194	4.542	4.881	4.934	5.182
Imports from Persian Gulf <sup>2/</sup>											
Total.....	1.961	1.835	1.774	1.775	1.722	1.563	1.594	1.747	2.131	2.459	2.483
Bahrain.....	-.001	-.001	-.002	-.002	-.002	-.003	-.002	-.002	-.001	.000	-.001
Iran.....	.000	.032	.000	.000	.000	.000	.000	.000	.000	.000	.000
Iraq.....	.518	.000	.000	.000	.000	.000	.001	.089	.336	.725	.620
Kuwait.....	.086	.006	.051	.353	.312	.218	.236	.253	.301	.248	.272
U.A.E.....	.016	.001	.004	.009	.011	.004	-.003	-.003	.000	-.002	.012
Qatar.....	.004	.000	.001	.001	.000	.000	.000	.004	.004	.010	.009
Saudi Arabia.....	1.339	1.797	1.720	1.414	1.402	1.344	1.363	1.406	1.491	1.477	1.571
Imports from OPEC-Africa											
Total.....	1.080	.956	.876	.956	.880	.859	.872	.979	.983	.915	1.121
Algeria.....	.280	.253	.196	.220	.243	.234	.256	.285	.290	.259	.225
Libya.....	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
Nigeria.....	.800	.703	.680	.736	.637	.625	.616	.694	.693	.656	.896
Imports from OPEC-South America											
Total.....	1.016	1.020	1.161	1.295	1.322	1.468	1.667	1.758	1.701	1.481	1.530
Venezuela.....	1.016	1.020	1.161	1.295	1.322	1.468	1.667	1.758	1.701	1.481	1.530
Imports from OPEC-Far East											
Total.....	.113	.106	.075	.074	.109	.087	.058	.057	.065	.080	.047
Indonesia.....	.113	.106	.075	.074	.109	.087	.058	.057	.065	.080	.047

<sup>1/</sup> OPEC=Organization of Petroleum Exporting Countries. See Appendix A for countries in this group.

<sup>2/</sup> The Persian Gulf countries are all members of OPEC, except for Bahrain.

Notes: •Imports include crude oil, natural gas liquids, and refined products, and are on a direct basis. •U.S. geographic coverage is the 50 States and District of Columbia. •Negative numbers represent net exports. •A dash (-) indicates no trade. •Zeroes (.000) indicate net imports of less than 0.0005 million barrels per day. •Data for 1997 are preliminary.

Sources: See end of Section 4.

**Table 4.11 Japan--Net Oil Imports, 1990-2000**  
(Million Barrels per Day)

	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
	Average										
Total Net Imports..	5.239	5.237	5.413	5.415	5.711	5.662	5.736	5.762	5.352	5.463	5.486
Imports from OPEC <sup>1/</sup>	4.062	4.026	4.198	4.245	4.495	4.467	4.470	4.699	4.467	4.403	4.438
Imports from Persian Gulf <sup>2/</sup>											
Total.....	3.394	3.370	3.586	3.721	3.946	3.979	4.025	4.304	4.132	4.051	4.124
Bahrain.....	.037	.037	.029	.025	.028	.029	.033	.023	.016	.017	.011
Iran.....	.385	.383	.362	.384	.459	.399	.451	.461	.473	.502	.498
Iraq.....	.146	.000	.000	.000	.000	.000	.000	.015	.017	.099	.072
Kuwait.....	.291	.014	.220	.368	.430	.501	.500	.557	.507	.515	.536
U.A.E.....	1.032	1.285	1.256	1.287	1.398	1.420	1.396	1.441	1.402	1.266	1.305
Qatar.....	.263	.285	.300	.330	.328	.335	.335	.364	.450	.442	.444
Saudi Arabia.....	1.240	1.367	1.420	1.327	1.303	1.296	1.310	1.441	1.268	1.210	1.258
Imports from OPEC-Africa											
Total.....	.011	.011	.007	.008	.017	.026	.032	.036	.025	.038	.017
Algeria.....	.010	.010	.007	.008	.012	.011	.012	.014	.012	.013	.002
Nigeria.....	.001	.001	.000	.000	.005	.016	.020	.023	.013	.025	.015
Imports from OPEC-South America											
Total.....	.011	.010	.010	.009	.009	.002	.003	.003	.000	.001	.012
Venezuela.....	.011	.010	.010	.009	.009	.002	.003	.003	.000	.001	.012
Imports from OPEC-Far East											
Total.....	.682	.673	.624	.533	.551	.488	.442	.380	.326	.329	.294
Indonesia.....	.682	.673	.624	.533	.551	.488	.442	.380	.326	.329	.294

<sup>1/</sup> OPEC=Organization of Petroleum Exporting Countries. See Appendix A for countries in this group.

<sup>2/</sup> The Persian Gulf countries are all members of OPEC, except for Bahrain.

Notes: •Imports include Crude Oil, Natural Gas Liquids, and Refined Products, and are on a direct basis. •Negative numbers represent net exports. •A dash (-) indicates no trade. •Zeroes (.000) indicate net imports of less than 0.0005 million barrels per day. •Data for 1997 are preliminary.

Sources: See end of Section 4.

**Table 4.12 OECD Europe--Net Oil Imports, 1990-2000**  
(Million Barrels per Day)

	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
	Average										
Total Net Imports..	8.201	8.452	8.325	7.990	7.216	7.092	7.198	7.196	7.743	7.037	7.184
Imports from OPEC <sup>1/</sup>	6.633	6.728	6.758	6.794	6.385	6.154	6.053	6.259	6.693	5.920	5.928
Imports from Persian Gulf <sup>2/</sup>											
Total.....	3.908	3.660	3.666	4.048	3.506	3.365	3.171	3.469	3.953	3.301	3.241
Bahrain.....	.020	.002	.003	.004	.003	.000	.001	.001	.004	.001	.003
Iran.....	1.190	1.132	1.113	1.253	1.074	1.149	1.059	.942	1.021	.940	.791
Iraq.....	.591	.000	.000	.001	.000	.000	.006	.336	.724	.808	.744
Kuwait.....	.346	.019	.142	.461	.302	.269	.288	.249	.275	.223	.260
U.A.E.....	.446	.281	.199	.092	.067	.011	.004	.009	.019	.006	.028
Qatar.....	.026	.009	.006	.000	.000	.002	.002	.000	.000	.000	.003
Saudi Arabia.....	1.290	2.217	2.203	2.237	2.060	1.933	1.811	1.932	1.910	1.324	1.413
Imports from OPEC-Africa											
Total.....	2.509	2.818	2.818	2.491	2.644	2.500	2.644	2.568	2.505	2.403	2.498
Algeria.....	.683	.757	.772	.693	.690	.724	.746	.681	.708	.706	.809
Libya.....	1.267	1.332	1.361	1.193	1.233	1.201	1.204	1.268	1.297	1.251	1.210
Nigeria.....	.559	.729	.686	.605	.721	.575	.694	.620	.501	.446	.479
Imports from OPEC-South America											
Total.....	.227	.249	.268	.240	.219	.273	.206	.206	.215	.212	.190
Venezuela.....	.227	.249	.268	.240	.219	.273	.206	.206	.215	.212	.190
Imports from OPEC-Far East											
Total.....	.008	.002	.009	.019	.019	.017	.033	.017	.024	.005	.003
Indonesia.....	.008	.002	.009	.019	.019	.017	.033	.017	.024	.005	.003

<sup>1/</sup> OPEC=Organization of Petroleum Exporting Countries. See Appendix A for countries in this group.

<sup>2/</sup> The Persian Gulf countries are all members of OPEC, except for Bahrain.

Notes: •Imports include crude oil, natural gas liquids, and refined products, and are on a direct basis. •"OECD Europe" consists of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, Turkey, and the United Kingdom. •Negative numbers represent net exports.

•A dash (-) indicates no trade. •Zeroes (.000) indicate net imports of less than 0.0005 million barrels per day. •Data for 1997 are preliminary.

Sources: See end of Section 4.

**Table 4.13 France--Net Oil Imports, 1990-2000**  
(Million Barrels per Day)

	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
	Average										
Total Net Imports..	1.750	1.851	1.766	1.741	1.596	1.702	1.716	1.747	1.855	1.862	1.867
Imports from OPEC <sup>1/</sup>	1.101	1.021	.932	1.006	.956	.911	.897	.899	1.029	.918	.883
Imports from Persian Gulf <sup>2/</sup>											
Total.....	.864	.708	.640	.757	.651	.647	.573	.617	.729	.629	.602
Bahrain.....	.011	.000	.001	.002	.000	.000	.001	.000	.002	.001	.001
Iran.....	.182	.171	.151	.243	.156	.208	.172	.127	.157	.137	.102
Iraq.....	.062	.000	.000	.000	.000	.000	.000	.078	.171	.148	.148
Kuwait.....	.015	.011	.029	.032	.016	.022	.017	.017	.019	.037	.029
U.A.E.....	.233	.064	.033	.025	.003	.002	.001	.000	.012	.001	.007
Qatar.....	.022	.003	.002	.000	.000	.000	.000	.000	.000	.000	.002
Saudi Arabia.....	.339	.459	.424	.454	.477	.416	.381	.393	.369	.304	.314
Imports from OPEC-Africa											
Total.....	.233	.296	.281	.242	.301	.262	.323	.282	.301	.284	.277
Algeria.....	.092	.107	.105	.066	.089	.103	.105	.131	.115	.117	.123
Libya.....	.079	.104	.087	.063	.059	.043	.051	.060	.061	.067	.060
Nigeria.....	.062	.084	.090	.112	.153	.115	.168	.091	.126	.099	.094
Imports from OPEC-South America											
Total.....	.015	.017	.011	.010	.003	.002	.001	.000	.000	.002	.004
Venezuela.....	.015	.017	.011	.010	.003	.002	.001	.000	.000	.002	.004
Imports from OPEC-Far East											
Total.....	.000	.001	.001	.000	.000	.000	.000	.000	.000	.004	.001
Indonesia.....	.000	.001	.001	.000	.000	.000	.000	.000	.000	.004	.001

<sup>1/</sup> OPEC=Organization of Petroleum Exporting Countries. See Appendix A for countries in this group.

<sup>2/</sup> The Persian Gulf countries are all members of OPEC, except for Bahrain.

Notes: •Imports include Crude Oil, Natural Gas Liquids, and Refined Products, and are on a direct basis. •Negative numbers represent net exports. •A dash (-) indicates no trade. •Zeroes (.000) indicate net imports of less than 0.0005 million barrels per day. •Data for 1997 are preliminary.

Sources: See end of Section 4.

**Table 4.14 Germany--Net Oil Imports, 1990-2000**  
(Million Barrels per Day)

	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
	Average										
Total Net Imports..	2.202	2.642	2.714	2.697	2.704	2.673	2.766	2.778	2.860	2.608	2.561
Imports from OPEC <sup>1/</sup>	.771	.859	.957	.948	.838	.711	.660	.645	.656	.597	.595
Imports from Persian Gulf <sup>2/</sup>											
Total.....	.217	.227	.215	.250	.217	.172	.145	.157	.163	.140	.129
Bahrain.....	-	-	-	.000	.001	.000	.000	.000	.000	-	-
Iran.....	.055	.053	.021	.053	.040	.031	.018	.023	.020	.016	.018
Iraq.....	.004	.000	.000	.000	.000	.000	.000	.001	.020	.017	.004
Kuwait.....	.013	.000	.009	.022	.026	.015	.016	.012	.016	.015	.013
U.A.E.....	.016	.012	.002	.002	.001	.000	.000	.001	.000	.000	.000
Qatar.....	.003	.002	.001	.000	.000	.000	.000	.000	.000	-	-
Saudi Arabia.....	.125	.161	.182	.173	.149	.125	.111	.120	.106	.091	.093
Imports from OPEC-Africa											
Total.....	.465	.524	.614	.594	.543	.461	.462	.442	.447	.417	.431
Algeria.....	.098	.126	.183	.195	.161	.135	.125	.095	.127	.098	.147
Libya.....	.244	.262	.252	.244	.244	.234	.258	.246	.277	.296	.244
Nigeria.....	.123	.136	.179	.154	.139	.093	.079	.101	.043	.023	.040
Imports from OPEC-South America											
Total.....	.088	.107	.128	.105	.079	.078	.053	.046	.046	.041	.035
Venezuela.....	.088	.107	.128	.105	.079	.078	.053	.046	.046	.041	.035
Imports from OPEC-Far East											
Total.....	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
Indonesia.....	.002	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

<sup>1/</sup> OPEC=Organization of Petroleum Exporting Countries. See Appendix A for countries in this group.

<sup>2/</sup> The Persian Gulf countries are all members of OPEC, except for Bahrain.

Notes: •Imports include crude oil, natural gas liquids, and refined products, and are on a direct basis. •Data through 1990 are for the former West Germany. •Negative numbers represent net exports. •A dash (-) indicates no trade. •Zeroes (.000) indicate net imports of less than 0.0005 million barrels per day. •Data for 1997 are preliminary.

Sources: See end of Section 4.

**Table 4.15 Italy--Net Oil Imports, 1990-2000**  
(Million Barrels per Day)

	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
	Average										
Total Net Imports..	1.788	1.750	1.819	1.728	1.760	1.802	1.773	1.775	1.809	1.731	1.744
Imports from OPEC <sup>1/</sup> /	1.375	1.393	1.343	1.222	1.117	1.203	1.244	1.353	1.421	1.234	1.288
Imports from											
Persian Gulf <sup>2/</sup> /											
Total.....	.626	.595	.573	.548	.430	.494	.502	.583	.658	.570	.578
Bahrain.....	.000	.001	.001	.000	.000	.000	.001	.000	.002	.000	.000
Iran.....	.192	.231	.239	.221	.143	.233	.263	.258	.273	.269	.208
Iraq.....	.079	.000	.000	.000	.000	.000	.000	.033	.108	.130	.168
Kuwait.....	.063	.000	.007	.012	.001	.000	.000	.000	.000	.003	.031
U.A.E.....	.075	.044	.013	.002	.000	.000	.000	.000	.000	.000	.000
Qatar.....	.000	.004	.001	.000	.000	.002	.002	.000	.000	-	-
Saudi Arabia.....	.216	.315	.312	.313	.286	.260	.236	.291	.274	.169	.171
Imports from OPEC-Africa											
Total.....	.740	.793	.757	.653	.660	.679	.714	.745	.723	.655	.697
Algeria.....	.155	.155	.140	.096	.099	.100	.110	.086	.083	.111	.129
Libya.....	.556	.581	.584	.542	.543	.562	.580	.609	.601	.516	.546
Nigeria.....	.029	.057	.034	.015	.018	.017	.025	.050	.039	.027	.023
Imports from											
OPEC-South America											
Total.....	.007	.004	.005	.002	.007	.014	.008	.012	.020	.007	.011
Venezuela.....	.007	.004	.005	.002	.007	.014	.008	.012	.020	.007	.011
Imports from OPEC-Far East											
Total.....	.003	.001	.009	.019	.019	.015	.021	.014	.023	.001	.001
Indonesia.....	.003	.001	.009	.019	.019	.015	.021	.014	.023	.001	.001

<sup>1/</sup> OPEC=Organization of Petroleum Exporting Countries. See Appendix A for countries in this group.

<sup>2/</sup> The Persian Gulf countries are all members of OPEC, except for Bahrain.

Notes: •Imports include Crude Oil, Natural Gas Liquids, and Refined Products, and are on a direct basis. •Negative numbers represent net exports. •A dash (-) indicates no trade. •Zeroes (.000) indicate net imports of less than 0.0005 million barrels per day. •Data for 1997 are preliminary.

Sources: See end of Section 4.

Table 4.16 OECD Imports from Iraq, 1990-2000  
(Million Barrels per Day)

	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
	Average										
Total.....	1.276	0.000	0.000	0.001	0.000	0.000	0.007	0.458	1.109	1.707	1.525
United States <sup>1</sup> /....	.518	.000	.000	.000	.000	.000	.001	.089	.336	.725	.620
Canada.....	.011	.000	.000	.000	.000	.000	.000	.014	.014	.027	.047
OECD Europe <sup>2</sup> /.....	.591	.000	.000	.001	.000	.000	.006	.336	.724	.808	.744
Main European Importers											
France.....	.062	.000	.000	.000	.000	.000	.000	.078	.171	.148	.148
Germany <sup>3</sup> /.....	.004	.000	.000	.000	.000	.000	.000	.001	.020	.017	.004
Italy.....	.079	.000	.000	.000	.000	.000	.000	.033	.108	.130	.168
Netherlands.....	.117	.000	.000	.000	.000	.000	.000	.024	.113	.170	.066
Spain.....	.063	.000	.000	.000	.000	.000	.002	.074	.130	.123	.122
European Net Exporters											
United Kingdom....	.027	.000	.000	.000	.000	.000	.000	.000	-	-	-
Smaller European Importers											
Austria.....	.000	.000	.000	.001	.000	.000	.000	.017	.031	.035	.030
Belgium.....	.029	.000	.000	.000	.000	.000	.000	.010	.047	.027	.037
Denmark.....	.000	.000	.000	.000	.000	.000	.000	.000	-	-	-
Greece.....	.044	.000	.000	.000	.000	.000	.000	.013	.013	.029	.037
Portugal.....	.019	.000	.000	.000	.000	.000	.000	.011	.029	.031	.017
Sweden.....	.000	.000	.000	.000	.000	.000	.000	.000	-	-	.007
Switzerland.....	.000	.000	.000	.000	.000	.000	.000	.001	.000	.000	.000
Turkey.....	.146	.000	.000	.000	.000	.000	.003	.074	.063	.097	.108
Japan.....	.146	.000	.000	.000	.000	.000	.000	.015	.017	.099	.072
Other OECD.....	.011	.000	.000	.000	.000	.000	.000	.005	.017	.048	.043

<sup>1</sup>/ U.S. geographic coverage is the 50 States and District of Columbia.

<sup>2</sup>/ "OECD Europe" consists of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, Turkey, and the United Kingdom.

<sup>3</sup>/ Data through 1990 are for the former West Germany.

Notes: •Imports include crude oil, natural gas liquids, and refined products, and are on a direct basis. •OECD=Organization for Economic Cooperation and Development. See Appendix A for countries in this group. •Negative numbers represent net exports. •A dash (-) indicates no trade. •Zeroes (.000) indicate net imports of less than 0.0005 million barrels per day. •Data for 1997 are preliminary.

Sources: See end of Section 4.

**Table 4.17 OECD Imports from Kuwait, 1990-2000**  
(Million Barrels per Day)

	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000
	Average										
Total.....	0.740	0.039	0.414	1.191	1.081	0.997	1.034	1.065	1.089	0.993	1.068
United States <sup>1</sup> /....	.086	.006	.051	.353	.312	.218	.236	.253	.301	.248	.272
Canada.....	.004	-	-	.000	.027	.000	.000	.000	.000	.001	.000
OECD Europe <sup>2</sup> /.....	.346	.019	.142	.461	.302	.269	.288	.249	.275	.223	.260
<b>Main European Importers</b>											
France.....	.015	.011	.029	.032	.016	.022	.017	.017	.019	.037	.029
Germany <sup>3</sup> /.....	.013	.000	.009	.022	.026	.015	.016	.012	.016	.015	.013
Italy.....	.063	.000	.007	.012	.001	.000	.000	.000	.000	.003	.031
Netherlands.....	.151	.002	.052	.254	.179	.176	.193	.168	.176	.142	.151
Spain.....	.010	.003	.000	.015	.000	.000	.000	.000	.000	.004	.002
<b>European Net Exporters</b>											
Norway.....	-	-	-	.000	.000	.000	.000	.000	.000	-	-
United Kingdom....	.045	.002	.027	.049	.058	.039	.032	.031	.025	.005	.016
<b>Smaller European Importers</b>											
Austria.....	.000	.000	.000	.000	.000	.000	.000	.000	-	-	-
Belgium.....	.000	.001	.006	.056	.005	.004	.015	.004	.014	.001	.000
Denmark.....	.034	.000	.000	.000	.000	.000	.000	.002	.007	.000	.004
Finland.....	-	.000	-	-	-	-	-	-	.001	.000	.000
Greece.....	.000	.000	.002	.005	.001	.000	.000	.000	.000	.001	.001
Portugal.....	.002	.000	.000	.000	.000	.000	.000	.000	-	-	-
Sweden.....	.001	.000	.000	.002	.000	.000	.000	.000	.000	.000	.000
Switzerland.....	-	.000	.000	.000	.000	.000	.000	.000	.000	-	-
Turkey.....	.011	.000	.010	.016	.016	.014	.015	.014	.016	.015	.013
Japan.....	.291	.014	.220	.368	.430	.501	.500	.557	.507	.515	.536
Other OECD.....	.013	.000	.000	.009	.011	.009	.010	.006	.006	.007	.000

<sup>1</sup>/ U.S. geographic coverage is the 50 States and District of Columbia.

<sup>2</sup>/ "OECD Europe" consists of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, Turkey, and the United Kingdom.

<sup>3</sup>/ Data through 1990 are for the former West Germany.

Notes: •Imports include crude oil, natural gas liquids, and refined products, and are on a direct basis. •OECD=Organization for Economic Cooperation and Development. See Appendix A for countries in this group. •Negative numbers represent net exports. •A dash (-) indicates no trade. •Zeroes (.000) indicate net imports of less than 0.0005 million barrels per day. •Data for 1997 are preliminary.

Sources: See end of Section 4.

## Sources for Section 4 (Historical Oil Data)

Crude Oil Production, Natural Gas Liquids Production, Other Liquids, and Refinery Gain

United States: • Energy Information Administration (EIA), Petroleum Supply Annual 2000; • Bureau of Mines, Mineral Industry Surveys, Petroleum Statement, Annual, various issues.

Other Countries: • EIA, International Energy Annual, various issues. • EIA, International Petroleum Annual, 1978. • United Nations, Yearbook of World Energy Statistics, 1979. Refinery Gains: National Petroleum Council, U.S. Petroleum Refinery Study, November 1986.

Oil Stocks

United States: EIA, Petroleum Supply Annual 2000.

Other OECD Countries: • 1973-1982: Organization for Economic Cooperation and Development (OECD), Quarterly Oil Statistics and Energy Balances, various issues. • 1983-2000: OECD, Monthly Oil Statistics in the EIA, International Energy Database.

Oil Demand

United States: EIA, Petroleum Supply Annual 2000.

Other OECD Countries: • 1973-1981: OECD, Quarterly Oil Statistics and Energy Balances, various issues. • OECD, Annual Oil Statistics data base, 1970-1979. • 1982-2000: OECD, Monthly Oil Statistics in the EIA International Energy Database.

Oil Imports

United States: Energy Information Administration (EIA), Petroleum Supply Annual 2000.

Other OECD Countries: • Organization for Economic Cooperation and Development (OECD), Quarterly Oil Statistics and Energy Balances, various issues. • OECD Monthly Oil Statistics database, 1991-2000.

## **Appendix A**

### **Organizational and Geographical Definitions**

## Appendix A. Organizational and Geographical Definitions

**International Energy Agency (IEA)** countries are: Australia, Austria, Belgium, Canada, Denmark, Finland, France, Germany, Greece, Hungary, Ireland, Italy, Japan, Luxembourg, Netherlands, New Zealand, Norway, Portugal, South Korea, Spain, Sweden, Switzerland, Turkey, United Kingdom, and United States.

**Organization for Economic Cooperation and Development (OECD)** countries are: Australia, Austria, Belgium, Canada, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Japan, Luxembourg, Mexico, Netherlands, New Zealand, Norway, Poland, Portugal, South Korea, Spain, Sweden, Switzerland, Turkey, United Kingdom, and United States. Total OECD includes the United States Territories (Guam, Puerto Rico, and the U.S. Virgin Islands). Total OECD excludes data for Czech Republic, Hungary, Mexico, Poland, and South Korea which are not yet available.

**OECD Europe** countries are: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Poland, Portugal, Spain, Sweden, Switzerland, Turkey, and United Kingdom. OECD Europe excludes data for Czech Republic, Hungary, and Poland which are not yet available.

**Organization of Petroleum Exporting Countries (OPEC)** members are: Algeria, Indonesia, Iran, Iraq, Kuwait, Libya, Nigeria, Qatar, Saudi Arabia, the United Arab Emirates, and Venezuela. As of December 31, 1992, Ecuador withdrew its membership in OPEC, and as of December 31, 1994, Gabon withdrew its membership. For consistency, Ecuador and Gabon are excluded in the historical series of OPEC totals.

**Arab members of OPEC** are: Algeria, Iraq, Kuwait, Libya, Qatar, Saudi Arabia and the United Arab Emirates.

**Organization of Arab Petroleum Exporting Countries (OAPEC)** are: Algeria, Bahrain, Egypt, Iraq, Kuwait, Libya, Neutral Zone, Qatar, Saudi Arabia, Syria, Tunisia, and the United Arab Emirates. In April 1979 Egypt was suspended from OAPEC membership. In May 1989 Egypt rejoined OAPEC. For consistency, Egypt is included in the historical series of the OAPEC totals.

**Persian (Arabian) Gulf countries** are: Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and the United Arab Emirates.

The term "Former USSR" is being used in the International Petroleum Monthly as a purely geographical expression, referring to the Commonwealth of Independent States (CIS), Georgia, and the three Baltic States (Estonia, Latvia, and Lithuania).

## **Appendix B**

### **Explanatory Notes**

## Appendix B. Explanatory Notes

### Note 1: World Oil Supply

Supply includes production of crude oil (including lease condensate), natural gas plant liquids, other hydrogen and hydrocarbons for refinery feedstocks, refinery gain, alcohol, and liquids produced from coal and other sources. Beginning in 1993, U.S. data includes fuel ethanol blended into finished motor gasoline and oxygenate production from merchant MTBE plants.

### Note 2: Oil Stocks

The International Energy Agency (IEA) assembles and reports total oil stock data for the member countries of the Organization for Economic Cooperation and Development (OECD). Oil stocks include crude oil (including strategic reserves), unfinished oils, natural gas plant liquids, and refined petroleum products. In its report titled Quarterly Oil Statistics and Energy Balances of OECD Countries, the IEA defines oil stocks as follows: "All non-military stocks held by importers (including all final consumers directly), refiners, Governments, major non-importing final consumers eligible under IEA/OECD commitments and by foreign entities in the following facilities: bulk terminals, refinery tanks, pipeline tankage, barges, intercoastal tankers (when port of departure and destination are in the reporting country), tankers in port (to the extent that their cargo is to be unloaded in the reporting country), and inland ship bunkers. Oil is reported regardless of the ownership of such storage facilities." IEA data exclude "oil held in pipelines, rail and truck tank cars, sea-going ships' bunkers, service stations, retail stores and tankers at sea." Also the IEA defines the United States to be the 50 States and the District of Columbia, and the U.S. Territories (Guam, Puerto Rico, and the U.S. Virgin Islands). The Energy Information Administration (EIA) does not include the United States Territories in its statistical definition of the United States. Further, the EIA includes oil in oil pipelines as part of its stock data. Tables 1.5, 1.6, 2.3, and 4.4 include oil stocks for the United States according to EIA definitions. Using IEA definitions, at the end of March 2001 United States (including territories) oil stocks totaled 1,333 million barrels.

### Note 3: A Change to the Oil Balance in Section 2.

Prior to August 1992, Section 2 of the International Petroleum Monthly presented a balance of oil supply, demand, and stock change for the Market Economies, at quarterly time intervals. The communist countries, or Centrally Planned Economies (CPEs) were not included in the balance, mainly because good quarterly data for oil demand in these countries were not available. Net imports from the CPEs were included in the balance as part of total Market Economies supply. At present, the former Soviet Union and most of the countries of Eastern Europe are in transition from communism to market economies; because of this there are no longer good political or economic reasons to publish an oil balance only for the countries that have traditionally been market economies. Beginning with the August 1992 edition, Section 2 of the International Petroleum Monthly was changed from a Market Economies oil balance to a world oil balance.

The main data issues related to this change may be summarized as follows:

Supply Data. Monthly oil supply data are available for all countries of the world. These data are used to generate Tables 1.1 to 1.4; they were used to expand the Section 2 supply table (Table 2.2) to the whole world.

Demand Data. EIA has now developed quarterly figures for world oil demand, including demand in the former CPEs; these are published in Table 3 of EIA's Short-Term Energy Outlook. The procedures involved in developing quarterly world demand numbers may be summarized as follows:

Complete monthly data are available for the 24 OECD countries. Annual demand data for all countries (about 220 countries) are presented in EIA's International Energy Annual. In 1997, the OECD accounted for about three-fifths of total world demand, the 25 largest consumers outside of the OECD accounted for about one-third of the world total, and the remaining countries (about 170 countries) accounted for less than one-tenth of the total. The key problem, therefore, is to develop good figures for the 25 largest consumers outside the OECD.

Of these 25 countries, by far the largest consumer is China, which in 1997 accounted for about one-sixth of the demand in the group of 25. The next largest consumer is Russia, which in 1997 accounted for about one-tenth of the demand in the group. Thus in 1997 China and Russia accounted for one-fourth of the demand in the group of 25. For these 2 countries, data are available on oil production and trade. The demand numbers shown in Section 2 are computed as production minus net exports. This is the same procedure used in the EIA Short-Term Energy Outlook, by the International Energy Agency in their Monthly Oil Market Report, and in other respected publications that deal with international oil markets. Note, however, that this method of computing demand ignores both refinery gain and stock changes.

For other major consuming countries outside of the OECD, quarterly demand data are developed based upon the latest available annual data, analytic judgment about current trends, and some seasonal adjustments. These are the same procedures used for the Short-Term Energy Outlook.

Stocks Data. Reliable stocks data are available for the OECD countries. Estimates of stocks for export and afloat, and of commercial floating stocks, are available. (See sources at the end of Section 2.)

For on-land stocks outside the OECD, there is little reliable data. Most estimates of on-land stocks outside the OECD are based on the theory that stocks are approximately equal to some number of days of demand. Demand figures (which themselves involve some degree of estimation) are then used to compute estimates of stock levels.

In the International Petroleum Monthly, it had been the practice for some time to estimate that on-land stocks in the traditional market economies outside of the OECD were equal to 55 days of demand. This was acceptable, mainly because the rule was used only to estimate a relatively small part of total stocks (about 16 percent).

When Section 2 was converted from a Market Economies oil balance to a world oil balance, there were important changes in the conditions that made it reasonable to estimate on-land stocks outside of the OECD using the rule of 55 days of demand. When the CPEs are included, the stocks that must be estimated are a considerably larger part of the total. In 1990, total oil demand in the former CPEs was more than 80 percent as large as demand in all of the non-OECD traditional market economies. Thus the quantity of stocks that would have to be estimated using a 55-day rule would nearly double, and the estimated components of stock levels and stock changes would become relatively large parts of the total. One consequence of this is that the statistical discrepancy (as shown in Table 2.1) would become less useful as an indicator of the overall consistency of the data. The statistical discrepancy is computed from supply, demand, and stock change. If a large part of the stock change is estimated, then the statistical discrepancy loses much of its significance.

As already noted, quarterly demands in the former Soviet Union and in China are computed as production minus net exports. This computation implicitly assumes a zero stock change. Demand in the former Soviet Union is falling. If we were to use a 55-day rule to compute stock levels, falling demand would imply falling stock levels. This would contradict the assumption of zero stock change which was used in computing demand.

In view of all this, the following approach has been adopted. Table 2.3 now shows levels of stocks for the OECD countries, levels of stocks for export and afloat, and levels of commercial floating storage. Stock changes based on these stock levels are shown in Table 2.1. At this time, no other stock levels are shown. Table 2.1 now has a single line labeled "Other Stock Draw and Statistical Discrepancy", which contains the computed values needed to make the table balance.

It may become possible in the future to obtain reliable information on certain categories of on-land stocks outside the OECD. If such data become available, they will be added to Table 2.3, and the corresponding stock change information will be added to Table 2.1.

Changes in Formats and Sign Conventions. There were several changes in Section 2 to make the International Petroleum Monthly more consistent with other EIA publications, especially with the Short-Term Energy Outlook. The numbers were changed from 1 decimal place to 2 decimal places. The word "consumption", as used before August 1992, was changed to "demand". The sign convention for stock changes in Table 2.1 was changed. Stock draws are now indicated by positive numbers, and stock additions are indicated by negative numbers. Table 2.1 also uses a new sign convention for the line labeled "Other Stock Draw and Statistical Discrepancy". The values in this line are now computed as Total Demand minus the sum of Total Supply and Total Reported Stock Draw. This is the reverse of the sign convention used before August 1992.

Summary. Section 2 was expanded from a Market Economies oil balance to a world oil balance. Supply data are tracked for all producing countries. Demand data are tracked for the 24 OECD countries, and for 25 large consumers outside of the OECD. Demand for the remaining countries (less than 10 percent of total demand) is estimated, for years that are not yet available in the International Energy Annual. The stock levels in these tables are based on reported data for the OECD and for stocks at sea. The line in Table 2.1 labeled "Other Stock Draw and Statistical Discrepancy" is a balancing item.

**Appendix C**

**Glossary**

## Appendix C. Glossary

**Alcohol.** The family name of a group of organic chemical compounds composed of carbon, hydrogen, and oxygen. The molecules in the series vary in chain length and are composed of a hydrocarbon plus a hydroxyl group. Alcohol includes methanol and ethanol.

**Demand (Consumption/Petroleum Products Supplied).** Total petroleum products supplied is the sum of all petroleum products supplied. For each product, the amount supplied is calculated by summing production, crude oil burned directly, imports, and net withdrawals from primary stocks and subtracting exports.

**Crude Oil.** A mixture of hydrocarbons that existed in liquid phase in underground reservoirs and remains liquid at atmospheric pressure after passing through surface-separating facilities. Crude oil production is measured at the wellhead and includes lease condensate.

**Government-Owned Stocks.** Oil stocks owned by the national government and held for national security. In the United States these stocks are known as the Strategic Petroleum Reserve.

**Lease Condensate.** A liquid recovered from natural gas at the well or at small gas/oil separators in the field. Consists primarily of pentanes and heavier hydrocarbons (also called field condensate).

**Natural Gas Plant Liquids.** Products obtained from processing natural gas at natural gas processing plants, including natural gasoline plants, cycling plants, and fractionators. Products obtained include ethane, liquefied petroleum gases, (propanes, butane, propane-butane mixtures, and ethane-propane mixtures), isopentane, natural gasoline, unfractionated streams, plant condensate, and other minor quantities of finished products, such as motor gasoline, special naphthas, jet fuel, kerosene, and distillate fuel oil.

**Oil Stocks.** Oil stocks include crude oil (including strategic reserves), unfinished oils, natural gas plant liquids, and refined petroleum products. See Explanatory Note 2.

**Other Hydrocarbons.** Other materials processed at refineries. Includes coal tar derivatives, hydrogen, gilsonite, and natural gas received by the refinery for reforming into hydrogen.

**Oxygenates.** Substances which, when added to gasoline, increase the amount of oxygen in that gasoline blend. Ethanol, Methyl Tertiary Butyl Ether (MTBE), Ethyl Tertiary Butyl Ether (ETBE), and methanol are common oxygenates.

**Petroleum Products.** Petroleum products are obtained from the processing of crude oil (including lease condensate), natural gas, and other hydrocarbon compounds. Petroleum products include unfinished oils, aviation gasoline, motor gasoline, naphtha-type jet fuel, kerosene-type jet fuel, kerosene, distillate fuel oil, residual fuel oil, ethane, liquefied petroleum gases, petrochemical feedstocks, special naphthas, lubricants, paraffin wax, petroleum coke, asphalt road oil, still gas, and other miscellaneous products.

**Processing Gain.** The amount by which the total volume of refinery output is greater than the volume of input for given period of time. The processing gain arises when crude oil and other hydrocarbons are processed into products that are, on average, less dense than the input.

**Processing Loss.** The amount by which the total volume of refinery output is less than the volume of input for given period of time. The processing loss arises when crude oil and other hydrocarbons are processed into products that are, on average, more dense than the input.

## **Appendix D**

### **Estimation Procedures**

## Appendix D. Estimation Procedures

Estimation procedures are used for demand numbers in many of the countries outside of the OECD, in cases where data from EIA's International Energy Annual are not yet available. Demand numbers for 1999 and earlier years, for all countries, may be found in EIA's International Energy Annual 1999, published in February 2001, which is the most recent published edition of the International Energy Annual. EIA's WORLD ENERGY database contains final demand data for all countries of the world for 1998, and preliminary demand data for all countries for 1999. Instructions for downloading this database may be found on EIA's home page (<http://www.eia.doe.gov/emeu/world/main1.html>). The status of the demand numbers shown in Section 2 of this current International Petroleum Monthly may be summarized as follows.

The OECD demand numbers are, as usual, based on the latest Quarterly Oil Statistics and Monthly Oil Statistics data from the International Energy Agency.

For countries outside of the OECD, the following approach is used. The numbers for 1998 and earlier years match the demand numbers in the WORLD ENERGY database on EIA's home page. Numbers for 1999 forward are the best available EIA estimates, based upon the best annual data currently available, analytic judgment about current trends, and some seasonal adjustments. These are the same numbers that appear in the international oil balance table in EIA's Short-Term Energy Outlook.

The two largest non-OECD oil consumers are China and Russia. For these two countries, published data are available on production and net exports. Demand is computed as production minus net exports. This is the same approach used in the Short-Term Energy Outlook, by the International Energy Agency in their Monthly Oil Market Report, and in other major publications dealing with international oil data. Note, however, that because of this computation, the demand numbers for China and Russia implicitly exclude stock draw and refinery gain.

**Appendix E**

**Conversions**

**Table E1. Refined Petroleum Products Conversion Factors**

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Product	Barrels per Metric Ton
Asphalt . . . . .	6.06
Distillate Fuel Oil . . . . .	7.46
Gasoline, Aviation . . . . .	8.90
Gasoline, Motor . . . . .	8.53
Greases . . . . .	6.30
Jet Fuel, Kerosene-type . . . . .	7.93
Jet Fuel, Naptha-type . . . . .	8.27
Kerosene . . . . .	7.73
Liquefied Petroleum Gas (LPG) . . . . .	11.60
Lubricants . . . . .	7.00
Miscellaneous Products . . . . .	8.04
Naphthas . . . . .	8.22
Natural Gas Liquids (NGL) . . . . .	10.40
Natural Gasoline . . . . .	10.00
Paraffin Oil . . . . .	7.14
Paraffin Wax . . . . .	7.87
Petrolatum . . . . .	7.87
Petroleum Coke . . . . .	5.51
Residual Fuel Oil . . . . .	6.66
White Spirits . . . . .	8.50

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Table E2. Barrels of Crude Oil per Metric Ton, 1990-1999

	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
North America										
Canada . . . . .	7.186	7.186	7.186	7.186	7.186	7.186	7.186	7.186	7.186	7.186
Mexico . . . . .	6.965	6.965	6.965	6.965	6.965	6.965	6.965	6.965	6.965	6.965
United States . . . . .	7.333	7.333	7.333	7.333	7.333	7.333	7.333	7.333	7.333	7.333
Central & South America										
Argentina . . . . .	7.120	7.120	7.120	7.120	7.120	7.120	7.120	7.120	7.120	7.120
Bolivia . . . . .	7.881	7.881	7.881	7.881	7.881	7.881	7.881	7.881	7.881	7.881
Brazil . . . . .	7.056	7.056	7.056	7.056	7.056	7.056	7.056	7.056	7.056	7.056
Chile . . . . .	7.506	7.506	7.506	7.506	7.506	7.506	7.506	7.506	7.506	7.506
Colombia . . . . .	7.080	7.080	7.080	7.080	7.080	7.080	7.080	7.080	7.080	7.080
Cuba . . . . .	6.449	6.449	6.449	6.449	6.449	6.449	6.449	6.449	6.449	6.449
Ecuador . . . . .	7.130	7.130	7.130	7.130	7.130	7.130	7.130	7.130	7.130	7.130
Peru . . . . .	7.407	7.407	7.407	7.407	7.407	7.407	7.407	7.407	7.407	7.407
Trinidad and Tobago . . . . .	7.084	7.084	7.084	7.084	7.084	7.084	7.084	7.084	7.084	7.084
Venezuela . . . . .	6.890	6.890	6.890	6.890	6.890	6.890	6.890	6.890	6.890	6.890
Western Europe										
Austria . . . . .	7.200	7.200	7.200	7.200	7.200	7.200	7.200	7.200	7.200	7.200
Denmark . . . . .	7.405	7.405	7.405	7.405	7.405	7.405	7.405	7.405	7.405	7.405
France . . . . .	7.332	7.332	7.332	7.332	7.332	7.332	7.332	7.332	7.332	7.332
Germany . . . . .	--	7.330	7.330	7.330	7.330	7.330	7.330	7.330	7.330	7.330
Germany, East . . . . .	7.340	--	--	--	--	--	--	--	--	--
Germany, West . . . . .	7.247	--	--	--	--	--	--	--	--	--
Greece . . . . .	7.231	7.231	7.231	7.231	7.231	7.231	7.231	7.231	7.231	7.231
Italy . . . . .	7.300	7.300	7.300	7.300	7.300	7.300	7.300	7.300	7.300	7.300
Netherlands . . . . .	7.239	7.239	7.239	7.239	7.239	7.239	7.239	7.239	7.239	7.239
Norway . . . . .	7.644	7.644	7.644	7.644	7.644	7.644	7.644	7.644	7.644	7.644
Spain . . . . .	7.506	7.506	7.506	7.506	7.506	7.506	7.506	7.506	7.506	7.506
Sweden . . . . .	6.623	6.623	6.623	6.623	6.623	6.623	6.623	6.623	6.623	6.623
Turkey . . . . .	7.200	7.200	7.200	7.200	7.200	7.200	7.200	7.200	7.200	7.200
United Kingdom . . . . .	7.523	7.523	7.523	7.523	7.523	7.523	7.523	7.523	7.523	7.523
Former Yugoslavia . . . . .	7.418	7.418	--	--	--	--	--	--	--	--
Croatia . . . . .	--	--	7.418	7.418	7.418	7.418	7.418	7.418	7.418	7.418
Serbia and Montenegro . . . . .	--	--	7.418	7.418	7.418	7.418	7.418	7.418	7.418	7.418
Slovenia . . . . .	--	--	--	7.418	7.418	7.418	7.418	7.418	7.418	7.418

-- = No Production of this form of energy.

Sources: International Energy Annual 1999. DOE/EIA-0219(99) (February 2001).

Table E2. Barrels of Crude Oil per Metric Ton, 1990-1999 (continued)

	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Eastern Europe & Former U.S.S.R.										
Albania . . . . .	6.594	6.594	6.594	6.594	6.594	6.594	6.594	6.594	6.594	6.594
Bulgaria . . . . .	7.332	7.332	7.332	7.332	7.332	7.332	7.332	7.332	7.332	7.332
Former Czechoslovakia . . . . .	6.780	6.780	6.780	--	--	--	--	--	--	--
Czech Republic . . . . .	--	--	--	6.780	6.780	6.780	6.780	6.780	6.780	6.780
Slovakia . . . . .	--	--	--	6.780	6.780	6.780	6.780	6.780	6.780	6.780
Hungary . . . . .	6.690	6.690	6.690	6.690	6.690	6.690	6.690	6.690	6.690	6.690
Poland . . . . .	7.418	7.418	7.418	7.418	7.418	7.418	7.418	7.418	7.418	7.418
Romania . . . . .	7.506	7.506	7.506	7.506	7.506	7.506	7.506	7.506	7.506	7.506
Former U.S.S.R. . . . .	7.270	7.270	--	--	--	--	--	--	--	--
Azerbaijan . . . . .	--	--	7.270	7.270	7.270	7.270	7.270	7.270	7.270	7.270
Belarus . . . . .	--	--	7.270	7.270	7.270	7.270	7.270	7.270	7.270	7.270
Georgia . . . . .	--	--	7.270	7.270	7.270	7.270	7.270	7.270	7.270	7.270
Lithuania . . . . .	--	--	--	7.270	7.270	7.270	7.270	7.270	7.270	7.270
Kazakhstan . . . . .	--	--	7.270	7.270	7.270	7.270	7.270	7.270	7.270	7.270
Kyrgyzstan . . . . .	--	--	7.270	7.270	7.270	7.270	7.270	7.270	7.270	7.270
Russia . . . . .	--	--	7.270	7.270	7.270	7.270	7.270	7.270	7.270	7.270
Tajikistan . . . . .	--	--	7.270	7.270	7.270	7.270	7.270	7.270	7.270	7.270
Turkmenistan . . . . .	--	--	7.270	7.270	7.270	7.270	7.270	7.270	7.270	7.270
Ukraine . . . . .	--	--	7.270	7.270	7.270	7.270	7.270	7.270	7.270	7.270
Uzbekistan . . . . .	--	--	7.270	7.270	7.270	7.270	7.270	7.270	7.270	7.270
Middle East										
Bahrain . . . . .	7.320	7.320	7.320	7.320	7.320	7.320	7.320	7.320	7.320	7.320
Iran . . . . .	7.350	7.350	7.350	7.350	7.350	7.350	7.350	7.350	7.350	7.350
Iraq . . . . .	7.430	7.430	7.430	7.430	7.430	7.430	7.430	7.430	7.430	7.430
Israel . . . . .	7.247	7.247	7.247	7.247	7.247	7.247	7.247	7.247	7.247	7.247
Jordan . . . . .	7.190	7.190	7.190	7.190	7.190	7.190	7.190	7.190	7.190	7.190
Kuwait . . . . .	7.250	7.250	7.250	7.250	7.250	7.250	7.250	7.250	7.250	7.250
Oman . . . . .	7.330	7.330	7.330	7.330	7.330	7.330	7.330	7.330	7.330	7.330
Qatar . . . . .	7.500	7.500	7.500	7.500	7.500	7.500	7.500	7.500	7.500	7.500
Saudi Arabia . . . . .	7.323	7.323	7.323	7.323	7.323	7.323	7.323	7.323	7.323	7.323
Syria . . . . .	7.290	7.290	7.290	7.290	7.290	7.290	7.290	7.290	7.290	7.290
United Arab Emirates . . . . .	7.596	7.596	7.596	7.596	7.596	7.596	7.596	7.596	7.596	7.596
Yemen . . . . .	7.631	7.631	7.631	7.631	7.631	7.631	7.631	7.631	7.631	7.631

-- = No Production of this form of energy.

Sources: International Energy Annual 1999. DOE/EIA-0219(99) (February 2001).

Table E2. Barrels of Crude Oil per Metric Ton, 1990-1999 (continued)

	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Africa										
Algeria . . . . .	8.130	8.130	8.130	8.130	8.130	8.130	8.130	8.130	8.130	8.130
Angola . . . . .	7.409	7.409	7.409	7.409	7.409	7.409	7.409	7.410	7.410	7.410
Benin . . . . .	6.870	6.870	6.870	6.870	6.870	6.870	6.870	6.870	6.870	6.870
Cameroon . . . . .	7.205	7.205	7.205	7.205	7.205	7.205	7.205	7.205	7.205	7.205
Congo (Brazzaville) . . . . .	7.506	7.506	7.506	7.506	7.506	7.506	7.506	7.506	7.506	7.506
Congo (Kinshasa) . . . . .	7.320	7.320	7.320	7.320	7.320	7.320	7.320	7.320	7.320	7.320
Cote d'Ivoire (Ivory Coast) . . . . .	7.285	7.285	7.285	7.285	7.285	7.285	7.285	7.285	7.285	7.285
Egypt . . . . .	7.256	7.256	7.256	7.256	7.256	7.256	7.256	7.260	7.260	7.260
Equatorial Guinea . . . . .	--	8.077	8.077	8.077	8.077	8.077	8.077	8.077	8.077	8.077
Gabon . . . . .	7.305	7.305	7.305	7.305	7.305	7.305	7.305	7.305	7.305	7.305
Ghana . . . . .	--	--	7.285	7.285	7.285	7.285	7.285	7.285	7.285	7.285
Libya . . . . .	7.580	7.580	7.580	7.580	7.580	7.580	7.580	7.580	7.580	7.580
Morocco . . . . .	7.600	7.600	7.600	7.600	7.600	7.600	7.600	7.600	7.600	7.600
Nigeria . . . . .	7.315	7.315	7.315	7.315	7.315	7.315	7.315	7.500	7.500	7.500
South Africa . . . . .	--	--	--	--	--	--	--	--	7.720	7.720
Sudan . . . . .	--	--	7.452	7.452	7.452	7.452	7.452	7.452	7.452	7.452
Tunisia . . . . .	7.689	7.689	7.689	7.689	7.689	7.689	7.689	7.689	7.689	7.689
Far East & Oceania										
Australia . . . . .	7.868	7.868	7.868	7.868	7.868	7.868	7.868	7.868	7.868	7.868
Bangladesh . . . . .	7.453	7.453	7.453	7.453	7.453	7.453	7.453	7.453	7.453	7.453
Brunei . . . . .	7.340	7.340	7.340	7.340	7.340	7.340	7.340	7.340	7.340	7.340
Burma . . . . .	7.084	7.084	7.084	7.084	7.084	7.084	7.084	7.084	7.084	7.084
China . . . . .	7.320	7.320	7.320	7.320	7.320	7.320	7.320	7.300	7.300	7.300
India . . . . .	7.440	7.440	7.440	7.440	7.440	7.440	7.440	7.330	7.330	7.330
Indonesia . . . . .	7.360	7.360	7.360	7.360	7.360	7.360	7.360	7.360	7.360	7.360
Japan . . . . .	7.357	7.357	7.357	7.357	7.357	7.357	7.357	7.357	7.357	7.357
Malaysia . . . . .	7.641	7.641	7.641	7.641	7.641	7.641	7.641	7.641	7.641	7.641
New Zealand . . . . .	7.321	7.321	7.321	7.321	7.321	7.321	7.321	7.321	7.321	7.321
Pakistan . . . . .	7.500	7.500	7.500	7.500	7.500	7.500	7.500	7.500	7.500	7.500
Papua New Guinea . . . . .	--	7.809	7.809	7.809	7.809	7.809	7.809	7.809	7.809	7.809
Philippines . . . . .	7.285	7.285	7.285	7.285	7.285	7.285	7.285	7.285	7.285	7.285
Taiwan . . . . .	6.568	6.568	6.568	6.568	6.568	6.568	6.568	6.568	6.568	6.568
Thailand . . . . .	6.758	6.758	6.758	6.758	6.758	6.758	6.758	6.758	6.758	6.758
Vietnam . . . . .	7.082	7.082	7.082	7.082	7.082	7.082	7.082	7.082	7.082	7.082

-- = No Production of this form of energy.

Sources: International Energy Annual 1999. DOE/EIA-0219(99) (February 2001).